

AD 647395

REPORT NUMBER 154

MARCH 1965

Volume II
ONE-FIFTH SCALE INLET MODEL
WIND TUNNEL TEST REPORT

LIFT FAN FLIGHT RESEARCH AIRCRAFT PROGRAM

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REPORT NUMBER 154

ONE-FIFTH SCALE INLET MODEL
WIND TUNNEL TEST REPORT

VOLUME II

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XV-5A Lift Fan
Flight Research Aircraft Program

Contract DA 44-177-TC-715

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March 1965

ADVANCED ENGINE AND TECHNOLOGY DEPARTMENT
GENERAL ELECTRIC COMPANY
CINCINNATI, OHIO 45215

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PREFACE

This is XV-5A Report No. 154, published in three volumes, which presents low and high speed wind tunnel test results for a 1/5-scale inlet model of the U.S. Army XV-5A Lift Fan Research Aircraft. The tests were conducted at the David W. Taylor Model Basin (DTMB) subsonic and transonic wind tunnel facilities during the period 4 April to 29 May, 1962. Tabulated data are located in Volume II for the low speed tests (Mach 0 to 0.2), and in Volume III for the high speed tests (Mach 0.4 to 0.85). Summary tables, graphs, model description, instrumentation, conditions tested, validity of data and other information are presented in Volume I. In general, good repeatability of data was obtained, and with the exception of Run 1 data of the high speed tests and a few other isolated test points, the data presented are believed to offer a reliable basis for predicting aircraft performance.

This is Volume II.

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1.0 INTRODUCTION

This report published in three volumes presents low and high speed wind tunnel test results for a 1/5-scale inlet model of the U. S. Army XV-5A Lift Fan Flight Research Aircraft.

Tests were conducted at David W. Taylor Model Basin (DTMB) by Ryan Aeronautical Company as a part of the XV-5A wind tunnel test program. Inlet performance data were obtained over the anticipated flight speed range of the XV-5A aircraft for a variety of inlet and model configurations. Low speed tests ($M = 0$ to $.2$) were conducted in the DTMB 8 x 10 foot subsonic wind tunnel facility during the period 4 April to 2 May 1962. High speed tests ($M = .4$ to $.85$) were conducted in the DTMB 7 x 10 foot transonic wind tunnel facility during the period 24 May to 29 May 1962. Presentations in this report are limited to reduced test data, and information considered necessary for their proper interpretation. Evaluation, analysis and discussions relating to data use for predicting XV-5A aircraft performance characteristics will be presented in subsequent aircraft technical reports. All reduced pressure data obtained from the wind tunnel tests are presented in tabular form. Low speed data are located in Volume II and high speed data are located in Volume III.

The following information is located in Volume I:

The model description is located in Section 3.0; General sketches and photographs are presented in Figures 2-1 to 2-8 of Section 2.0; Detailed model drawings are located in Figures 7-1 through 7-10 of Section 7.2; Photographs of the model installed in the low speed tunnel facility are shown in Figures 2-2 and 2-3; and in the high speed wind tunnel facility Figure 2-8.

2.0 MODEL DESCRIPTION AND TEST PROCEDURES

2.1 MODEL AND INSTALLATION

The Ryan XV-5A 1/5 scale inlet model was designed for testing in both low speed and high speed wind tunnels of the David W. Taylor Model Basin facility. The model was constructed and instrumented by Contour Company, Rosemead, California according to specifications, drawings, and loft boards furnished by Ryan Aeronautical Company. Model configuration flexibility was obtained through a series of interchangeable instrumented components, including two canopy sections, three inlet sections and three inlet splitter sections which were attachable to the basic fuselage. Air flow passages were provided to simulate engine air flow and boundary layer bleed ducts. Compatible and interchangeable sting adaptors attached to the model base permitted model installation on the mounting systems of both low speed and high speed wind tunnel facilities without modification.

The model was constructed mostly of alternately oriented laminates of one-inch mahogany bonded with Penacolite to form a herringbone bond for added strength. The Penacolite bond is suitable for use to 120° F. The basic model component is the fuselage section, which provides space for instrumentation and attachment of model interchangeable components, and which is attached to the sting adaptors for wind tunnel installation. Model fabrication tolerances related to loft boards were: external lines, ± 0.030 ; inlet lips, ± 0.003 ; and inlet duct passages, ± 0.005 inches. Inlet lips were fabricated of aluminum. The model was finished with a highly polished paint. Component notation and model configurations tested are summarized in Table 2-1.

Model instrumentation consisted of 153 total and static pressure probes generally located and identified in Table 2-2. Table 2-2 also references model drawings where detailed instrument location and identification may be obtained. A majority of the pressure probes were connected to three Scanivalves of 48 ports each. Simultaneous readings of all Scanivalve data were obtained by storing pressures in the storage manifolds by means of lockout valves. Stored pressures were fed to the Scanivalves, and transmitted to the recording system by two 5 psid and one 1 psid pressure transducers.

Data were recorded sequentially on punched tape, coded for the ALWAC III-E computer, and typed by a Friden Flexowriter. Test condition control information was manually typed into the data recording system. Model engine air flow rates were controlled by remotely positioned conical plugs at the outlet of the model air flow passages. Since the plugs were separately controlled from fully closed to fully open positions, engine out conditions could be simulated. Only the left engine duct was fully instrumented. Thus in applying model data to the full scale aircraft, identical flow in both ducts is expected at all angles of attack for zero sideslip angle, while unequal flow is expected during sideslip angle studies, so that both positive and negative values must be considered to determine inlet performance during sideslip conditions. Flow control instrumentation (see Table 2-2) was provided in the calibrated model venturi section of both engine air ducts and photographically recorded from manometer boards. In the low speed tests engine air flow was obtained by drawing air through two 4.0 inch hoses connected to an external suction system provided by the facility. This system also served to calibrate the venturi section of the model.

2.2 TEST PROCEDURE

Prior to model installation in the low speed wind tunnel, model instrumentation was thoroughly checked for defects resulting from shipping and/or handling. Except for the pressure probes noted in Table 2-3, all instrumentation was considered in workable order. Periodically throughout both low speed and high speed wind tunnel tests, pressure checks were made to determine the validity of the pressure probes. Any discrepancies were noted and indicated on the output data. Transducer calibrations were obtained by applying known pressure differentials and noting the number of counts on the recorder system.

In general, the test procedure followed in both low speed and high speed wind tunnels consisted of the following steps:

1. Installation of model configuration in wind tunnel.
2. Establishment of wind tunnel speed.
3. Adjustment of model air flow rate.
4. Setting of model attitude by varying pitch (α) and sideslip (β) angles.

The variables in each step were investigated until the desired matrix of test data for each configuration was obtained. In the low speed facility,

6

tunnel speed was controlled by dynamic pressure and all pressure data were referenced to barometric data. In the high speed facility, tunnel speed was controlled by Mach number, and all pressure data were referenced to total pressure. Definition of terms are presented in Table 2-4.

TABLE 2-1
XV-5A INLET MODEL
CONFIGURATION NOTATION AND CONFIGURATIONS TESTED

Configuration Notation

| | |
|------------|--|
| C 1 | Basic Canopy |
| C 2 | Cut Down Canopy |
| I 0 | 24E Oval Inlet |
| I 1 | 30E Oval Inlet |
| I 2 | Dual Inlet |
| S 0 | Short Splitter Plate |
| S 1 | Long Splitter Plate |
| S 2 | Dual Inlet Splitter Plate |
| B 0 | Boundary Layer Duct Plug Closed |
| B 1 | Boundary Layer Duct Plug Open |
| E 1 | Single Engine Operation |
| E 2 | Two Engine Operation |

| <u>Configurations Tested</u> | <u>Low Speed *</u> <u>Wind Tunnel</u> | <u>High Speed *</u> <u>Wind Tunnel</u> |
|-------------------------------------|--|---|
| C I S B E | | |
| 1 1 1 1 2 | X | X |
| 1 0 1 1 2 | X | X |
| 1 1 0 1 2 | X | - |
| 1 1 0 0 2 | X | - |
| 1 0 0 1 2 | X | - |
| 1 0 0 0 2 | X | - |
| 1 2 2 1 2 | X | X |
| 1 2 2 0 2 | X | - |
| 2 1 1 1 2 | X | - |
| 1 1 1 1 1 | X | - |
| 1 0 1 1 1 | X | X |
| 1 0 0 1 1 | X | - |
| 1 2 2 1 1 | X | X |

- * X Indicates configuration tested**
- Indicates configuration not tested

TABLE 2-2
XV-5A INLET MODEL
GENERAL LOCATION OF INSTRUMENTATION

| Pressure Tube | <u>General Designation</u> | <u>Reference *</u> <u>Figure</u> |
|----------------------|---|---|
| 101 - 130 | Compressor Face Rake Total Pressure | 7-9 |
| 131 - 142 | Boundary Layer Rake Total Pressures | 7-8 |
| 143 - 144 | Boundary Layer Duct Total Pressures | 7-1 |
| 201 - 206 | Compressor Face Wall Static Pressures | 7-8 |
| 207 - 212 | Compressor Bullet Wall Static Pressures | 7-9 |
| 213 - 224 | Inlet Top Static Pressures | 7-9 |
| 225 - 236 | Inlet Side Static Pressures | 7-8 |
| 237 - 245 | Inlet Splitter Static Pressures | 7-8 |
| 301 - 309 | Inlet Bottom Static Pressures | |
| 310 - 320 | Nacelle Top Static Pressures | 7-8, 7-1 |
| 321 - 329 | Nacelle Side Static Pressures | 7-8 |
| 330A - 334A** | Canopy Side Static Pressures | 7-1 |
| 335 - 342 | Canopy Center-line Static Pressures | 7-1 |
| 343 - 344 | Canopy Side Static Pressures | 7-1 |
| 401 - 404 | Flow Meter Rake Total Pressures | 7-6 |
| 405 - 408 | Flow Meter Wall Static Pressures | 7-6 |
| 409 - 412 | Flow Meter Rake Total Pressure | 7-6 |
| 413 - 416 | Flow Meter Wall Static Pressures | 7-6 |

* See Report No. 154 Volume I.

** Tubes 330 - 334 were replaced by 330A - 334A.

TABLE 2-3
XV-5A INLET MODEL
IDENTIFICATION OF DEFECTIVE PRESSURE TUBES DURING TEST

Low Speed Tests

All Runs

Component

| | | |
|------------------|------------|---|
| Fuselage | | 233, 334 |
| Canopy C1 | | 331 |
| Inlet | I 0 | 214, 215, 234, 310, 325 |
| | I 1 | 223, 226, 230, 321, 325, 326 |
| | I 2 | 217, 237, 240, 310, 312, 315, 327, 328, 329 |

TABLE 2-4
DEFINITION OF SYMBOLS AND TERMS

| <u>Symbol</u> | <u>Definition</u> | <u>Units</u> |
|---------------------|--|-----------------------|
| A_c | Area of compressor face | in^2 |
| A_t | Area of inlet throat | in^2 |
| B | Barometric pressure | inches H _g |
| C_p | Pressure coefficient | None |
| g | Acceleration of gravity = 32.174 | ft/sec^2 |
| K | Compressor face total pressure variation factor | % |
| L | Compressor face static pressure variation factor | % |
| m/m* | Mass flow ratio referenced to critical mass flow at inlet throat | None |
| M_c | Mach number at compressor face | None |
| M_o | Free stream Mach number | None |
| P_{cb} | Average static pressure engine bullet, tubes 207-212 | lb/in^2 |
| P_{cw} | Average static pressure compressor face wall, tubes 201-206 | lb/in^2 |
| P_s | Static pressure | lb/in^2 |
| $P_{s \text{ max}}$ | Maximum static pressure, tubes 201-206 | lb/in^2 |
| $P_{s \text{ min}}$ | Minimum static pressure, tubes 201-206 | lb/in^2 |
| P_{sn} | Static pressure tube n | lb/in^2 |
| P_{so} | Free stream static pressure | lb/in^2 |
| P_t | Total pressure | lb/in^2 |

TABLE 2-4 (Continued)

| <u>Symbol</u> | <u>Definition</u> | <u>Units</u> |
|-----------------|--|--------------------------------------|
| P_{tc} | Average total pressure at compressor face, tubes 101-130 | lb/in ² |
| $P_{t \max}$ | Maximum total pressure at compressor face, tubes 101-130 | lb/in ² |
| $P_{t \min}$ | Minimum total pressure at compressor face, tubes 101-130 | lb/in ² |
| P_{to} | Free stream total pressure | lb/in ² |
| P_{tc}/P_{to} | Inlet total pressure recovery factor | None |
| q | Free stream dynamic pressure | lb/in ² |
| R | Gas constant for air = 1716.322 | ft ² /sec ² °R |
| T | Tunnel temperature | °F |
| T_{tc} | Compressor face total temperature $T + 459.69$ | °R |
| W_c | Model air flow rate at compressor face | lb/sec |
| α | Model angle of attack | Degrees |
| β | Model angle of sideslip | Degrees |
| γ | Ratio specific heats for air = 1.4 | None |
| C_p | $= (P_{sn} - P_{so}) / q$ or | |
| C_p | $= (P_{sn} - P_{so}) / P_{so}$ at $q = 0$ | |
| K | $= (P_{t \max} - P_{t \min}) / P_{tc}$ | |
| L | $= (P_{s \max} - P_{s \min}) / P_{tc}$ | |
| m/m^* | $= 1.728 M_c A_c P_{tc} / A_t P_{to} \left[1 + \frac{\gamma - 1}{2} M_c^2 \right]^{\frac{\gamma + 1}{2(\gamma - 1)}}$ | |

TABLE 2-4 (Continued)

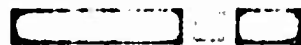
| <u>Sy mbol</u> | <u>Definition</u> | <u>Units</u> |
|----------------|---|--------------|
| M_c | $= (2/\gamma - 1)^{1/2} \left[(P_{tc}/P_{sc}) \frac{\gamma - 1}{\gamma} - 1 \right]^{1/2}$ | |
| M_o | $= (2/\gamma - 1)^{1/2} \left[(P_{to}/P_{so}) \frac{\gamma - 1}{\gamma} - 1 \right]^{1/2}$ | |
| q_o | $= \gamma M_o^2 P_{so} / 2$ | |
| W_c | $= \frac{g M_c A_c P_{tc} (\gamma/R)^{1/2}}{144 (T_{tc})^{1/2} \left[1 + \frac{\gamma - 1}{2} M_c^2 \right]^{\frac{\gamma + 1}{2(\gamma - 1)}}}$ | |

3.0 TEST RESULTS

All reduced data obtained from low speed wind tunnel tests ($0 \leq M_0 \leq 0.2$) for the conditions of Table 3-1 are presented in Tables 3-2 through 3-9 of this volume. When two values of m/m^* are given in the tables, the values are for the left and right hand inlet ducts respectively. A single value of m/m^* indicates left and right inlet ducts are operating at essentially equal flows (within $\pm 0.5\%$ or that only one engine is operative (Eng. 1). In addition to the defective tubes of Table 2-3, certain tubes developed leaks or constrictions during the tests; either in the model or the readout instrumentation. An effort was made to identify the tubes by overlining the questionable data. Also parts of the data for tubes 131 and 134 are overlined, since they were cross-connected for a portion of the tests. When the Scanivalve capacity was exceeded, data was labeled n.g. (this is equivalent to blowing a manometer tube for a specific test point). Tabular headings, identification of instrumentation, symbols, and supporting equations are defined in Tables 2-1 through 2-4.

The reported mass flow ratios (m/m^*) for the low speed tests were based on a compressor face to inlet throat area ratio of 1.0177. Review of inlet model loft boards show this ratio should have been 1.0288; therefore, although of small effect, values of m/m^* quoted in Tables 3-2 through 3-9 should be increased by a factor of 1.0109.

RYAN



Configuration
C11S1B1E2

TABLE 3-1

LOW SPEED WIND TUNNEL RUN INDEX, $0 \leq M \leq 0.2$

*** Data Plotted:**

1 means NR, K and L plotted in Figures 4-1 through 4-36 of Volume I.

2 means p/P_t tubes 101 to 130 plotted in Figures 4-37 through 4-47 of Volume I.

3 means C_p tubes 310 to 344 plotted in Figures 4-48 through 4-81 of Volume I.

| | M_o | α | β | m/m^* | Data Plotted* | Tabulated Data | | CASE |
|--|-------|----------|---------|---------|------------------|----------------|--------|--------|
| | | | | | | Page | Volume | |
| | 0 | 0 | 0 | .524 | 1 | 465 | II | L22-3 |
| | | | | .676 | 1, 2 | 466 | | L22-4 |
| | | | | .75 | 1 | 467 | | L22-1 |
| | | | | .746 | 1 | 468 | | L22-5 |
| | | | | .804 | 1 | 469 | | L22-2 |
| | .02 | 0 | -30 | .466 | 1, 2 | 470 | | L39-1 |
| | | | +30 | .751 | 1, 2 | 471 | | L39-2 |
| | | | +30 | .828 | 1, 2 | 472 | | L40-1 |
| | | | -30 | .794 | 1, 2 | 473 | | L40-2 |
| | .10 | 0 | 0 | .520 | 1 | 474 | | L31-1 |
| | | -20 | 0 | .521 | | 475 | | L31-2 |
| | | +20 | 0 | .521 | | 476 | | L31-3 |
| | | 0 | -10 | .520 | | 477 | | L31-4 |
| | | 0 | 10 | .520 | | 478 | | L31-5 |
| | | -10 | 0 | .521 | | 479 | | L31-6 |
| | | 10 | 0 | .521 | | 480 | | L31-7 |
| | | 0 | 0 | .674 | | 481 | | L32-1 |
| | | -4 | 0 | .675 | | 482 | | L32-2 |
| | | -10 | 0 | .673 | | 483 | | L32-3 |
| | | -20 | 0 | .672 | | 484 | | L32-4 |
| | | +4 | 0 | .673 | | 485 | | L32-5 |
| | | 10 | 0 | .672 | | 486 | | L32-6 |
| | | 20 | 0 | .675 | | 487 | | L32-7 |
| | | 0 | -4 | .674 | | 488 | | L32-8 |
| | | 0 | -10 | .672 | | 489 | | L32-9 |
| | | 0 | +4 | .673 | | 490 | | L32-10 |
| | | 0 | 10 | .674 | | 491 | | L32-11 |
| | | 4 | 10 | .675 | | 492 | | L32-12 |
| | | 4 | 4 | .676 | | 493 | | L32-13 |
| | | 4 | -4 | .676 | | 494 | | L32-14 |
| | | 4 | -10 | .672 | | 495 | | L32-15 |
| | | -4 | -10 | .673 | | 496 | | L32-16 |
| | | -4 | -4 | .676 | | 497 | | L32-17 |
| | | -4 | +4 | .673 | | 498 | | L32-18 |
| | | -4 | 10 | .674 | | 499 | | L32-19 |
| | | 0 | 0 | .747 | | 500 | | L33-1 |
| | | -4 | 0 | .748 | | 501 | | L33-2 |
| | | -10 | 0 | .752 | ▼ | 502 | ▼ | L33-3 |
| | | | | | | | | |
| | | | | | | | | |

RYAN

TABLE 3-1 (Continued)
LOW SPEED INDEX
Configuration C11S1B1E2

| | M_o | α | β | m/m^* | Data Plotted* | Tabulated Data | | CASE |
|--|-------|----------|---------|---------|------------------|----------------|--------|--------|
| | | | | | | Page | Volume | |
| | .10 | -20 | 0 | .748 | 1 | 503 | II | L33-4 |
| | | 4 | 0 | .752 | | 504 | | L33-5 |
| | | 10 | 0 | .747 | | 505 | | L33-6 |
| | | 20 | 0 | .75 | | 506 | | L33-7 |
| | | 0 | -4 | .75 | | 507 | | L33-8 |
| | | 0 | -10 | .748 | | 508 | | L33-9 |
| | | 0 | 4 | .752 | | 509 | | L33-10 |
| | | 0 | 10 | .75 | | 510 | | L33-11 |
| | | 4 | 10 | .748 | | 511 | | L33-12 |
| | | 4 | -10 | .747 | | 512 | | L33-13 |
| | | -4 | -10 | .748 | | 513 | | L33-14 |
| | | -4 | +10 | .75 | | 514 | | L33-15 |
| | | 0 | 0 | .822 | | 515 | | L34-1 |
| | | -4 | 0 | .827 | | 516 | | L34-2 |
| | | -10 | 0 | .822 | | 517 | | L34-3 |
| | | -20 | 0 | .826 | | 518 | | L34-4 |
| | | 4 | 0 | .822 | | 519 | | L34-5 |
| | | 10 | 0 | .820 | | 520 | | L34-6 |
| | | 20 | 0 | .820 | | 521 | | L34-7 |
| | | 0 | -10 | .811 | | 522 | | L34-8 |
| | | 0 | 10 | .833 | | 523 | | L34-9 |
| | .15 | 0 | 0 | .667 | | 524 | | L25-1 |
| | | -4 | 0 | .669 | | 525 | | L25-2 |
| | | -10 | 0 | .668 | | 526 | | L25-3 |
| | | -20 | 0 | .670 | | 527 | | L25-4 |
| | | 4 | 0 | .665 | | 528 | | L25-5 |
| | | 10 | 0 | .666 | | 529 | | L25-6 |
| | | 20 | 0 | .669 | | 530 | | L25-7 |
| | | 0 | -4 | .667 | | 531 | | L25-8 |
| | | 0 | -10 | .667 | | 532 | | L25-9 |
| | | 0 | 4 | .670 | | 533 | | L25-10 |
| | | 0 | 10 | .667 | | 534 | | L25-11 |
| | | 4 | 10 | .670 | | 535 | | L25-12 |
| | | 4 | 4 | .669 | | 536 | | L25-13 |
| | | 4 | -4 | .669 | | 537 | | L25-14 |
| | | 4 | -10 | .668 | | 538 | | L25-15 |
| | | -4 | -10 | .668 | | 539 | | L25-16 |
| | | -4 | -4 | .669 | | 540 | | L25-17 |
| | | -4 | +4 | .671 | | 541 | | L25-18 |

RYAN

TABLE 3-1 (Continued)
LOW SPEED INDEX
Configuration CH1S1B1E2

| | M_o | α | β | m/m^* | Data Plotted* | Tabulated Data | | CASE |
|--|-------|----------|---------|---------|------------------|----------------|--------|--------|
| | | | | | | Page | Volume | |
| | .15 | -4 | 10 | .67 | 1 | 542 | II | L25-19 |
| | | 0 | 0 | .743 | | 543 | | L25-2 |
| | | -4 | 0 | .737 | | 544 | | L25-3 |
| | | -10 | 0 | .739 | | 545 | | L25-4 |
| | | -20 | 0 | .741 | | 546 | | L25-5 |
| | | 4 | 0 | .738 | | 547 | | L25-6 |
| | | 10 | 0 | .740 | ↓ | 548 | | L25-7 |
| | | 20 | 0 | .738 | 1, 2 | 549 | | L25-8 |
| | | 0 | -4 | .738 | 1 | 550 | | L25-9 |
| | | 0 | -10 | .742 | | 551 | | L25-10 |
| | | 0 | 4 | .736 | | 552 | | L25-11 |
| | | 0 | 10 | .743 | | 553 | | L25-12 |
| | | 4 | 10 | .740 | | 554 | | L25-13 |
| | | 4 | 4 | .738 | | 555 | | L25-14 |
| | | 4 | -4 | .743 | | 556 | | L25-15 |
| | | 4 | -10 | .738 | | 557 | | L25-16 |
| | | -4 | -10 | .737 | | 558 | | L25-17 |
| | | -4 | -4 | .744 | | 559 | | L25-18 |
| | | -4 | 4 | .743 | | 560 | | L25-19 |
| | | -4 | 10 | .740 | | 561 | | L25-20 |
| | | 0 | 0 | .742 | | 562 | | L25-21 |
| | | 0 | 0 | .822 | | 563 | | L24-2 |
| | | -4 | 0 | .824 | | 564 | | L24-3 |
| | | -10 | 0 | .828 | | 565 | | L24-4 |
| | | -20 | 0 | .829 | | 566 | | L24-5 |
| | | 4 | 0 | .828 | | 567 | | L24-6 |
| | | 10 | 0 | .827 | | 568 | | L24-7 |
| | | 20 | 0 | .824 | | 569 | | L24-8 |
| | | 0 | -4 | .824 | | 570 | | L24-9 |
| | | 0 | -10 | .809 | | 571 | | L24-10 |
| | | 0 | 4 | .827 | | 572 | | L24-11 |
| | | 0 | 10 | .829 | | 573 | | L24-12 |
| | .20 | 0 | 0 | .512 | | 574 | | L27-1 |
| | | -4 | 0 | .511 | | 575 | | L27-2 |
| | | -10 | 0 | .511 | | 576 | | L27-3 |
| | | -20 | 0 | .512 | | 577 | | L27-4 |
| | | 4 | 0 | .513 | | 578 | | L27-5 |
| | | 10 | 0 | .513 | | 579 | | L27-6 |
| | | 20 | 0 | .509 | ↓ | 580 | ↓ | L27-7 |

RYAN

TABLE 3-1 (Continued)
LOW SPEED INDEX
Configuration C11S1B1E2

| | M_o | α | β | m/m^* | Data Plotted* | Tabulated Data | | CASE |
|--|-------|----------|---------|---------|------------------|----------------|--------|--------|
| | | | | | | Page | Volume | |
| | .2 | 0 | -4 | .509 | 1 | 581 | II | L27-8 |
| | | 0 | -10 | .507 | | 582 | | L27-9 |
| | | 0 | 4 | .515 | | 583 | | L27-11 |
| | | 0 | 10 | .513 | | 584 | | L27-12 |
| | | 4 | 10 | .513 | | 585 | | L27-13 |
| | | 4 | 4 | .513 | | 586 | | L27-14 |
| | | 4 | -4 | .509 | | 587 | | L27-15 |
| | | 4 | -10 | .512 | | 588 | | L27-16 |
| | | -4 | -10 | .513 | | 589 | | L27-17 |
| | | -4 | -4 | .513 | | 590 | | L27-18 |
| | | -4 | 4 | .513 | | 591 | | L27-19 |
| | | -4 | 10 | .508 | | 592 | | L27-20 |
| | | 0 | 0 | .663 | | 593 | | L28-1 |
| | | -4 | 0 | .663 | | 594 | | L28-3 |
| | | -10 | 0 | .660 | | 595 | | L28-4 |
| | | -20 | 0 | .661 | | 596 | | L28-6 |
| | | 4 | 0 | .660 | | 597 | | L28-7 |
| | | 10 | 0 | .658 | | 598 | | L28-8 |
| | | 20 | 0 | .660 | | 599 | | L28-9 |
| | | 0 | -4 | .662 | | 600 | | L28-10 |
| | | 0 | -10 | .659 | | 601 | | L28-11 |
| | | 0 | 4 | .658 | | 602 | | L28-12 |
| | | 0 | 10 | .658 | | 603 | | L28-13 |
| | | 4 | 10 | .662 | | 604 | | L28-14 |
| | | 4 | 4 | .659 | | 605 | | L28-15 |
| | | 4 | -4 | .658 | | 606 | | L28-16 |
| | | 4 | -10 | .658 | | 607 | | L28-17 |
| | | -4 | -10 | .658 | | 608 | | L28-18 |
| | | -4 | -4 | .661 | | 609 | | L28-19 |
| | | -4 | 4 | .660 | | 610 | | L28-20 |
| | | -4 | 10 | .664 | | 611 | | L28-22 |
| | | 0 | 0 | .727 | | 612 | | L29-1 |
| | | -4 | 0 | .728 | | 613 | | L29-2 |
| | | -10 | 0 | .728 | | 614 | | L29-3 |
| | | -20 | 0 | .728 | ↓ | 615 | | L29-4 |
| | | 4 | 0 | .732 | 1 | 616 | | L29-5 |
| | | 10 | 0 | .733 | 1, 2 | 617 | | L29-6 |
| | | 20 | 0 | .727 | 1 | 618 | | L29-7 |
| | | 0 | -4 | .733 | 1 | 619 | | L29-8 |
| | | 0 | -10 | .733 | 1 | 620 | ↓ | L29-9 |

TABLE 3-1 (Continued)
LOW SPEED INDEX
Configuration C1I1S1B1E2

[illegible]

[illegible]

TABLE 3-1 (Continued)
LOW SPEED INDEX
Configuration C1I0S1B1E2

[illegible]

RYAN

TABLE 3-1 (Continued)
LOW SPEED INDEX
Configuration C111S0B1E2

| | M_o | α | β | m/m^* | Data Plotted* | Tabulated Data | | CASE |
|--|-------|----------|---------|---------|------------------|----------------|--------|-------|
| | | | | | | Page | Volume | |
| | 0 | 0 | 0 | .374 | 1 | 453 | II | L6-2 |
| | | | | .524 | | 454 | | L6-3 |
| | | | | | | | | |
| | | | | | | | | |
| | | 0 | 0 | .600 | | 455 | | L6-6 |
| | | 0 | 0 | .677 | | 456 | | L6-7 |
| | | 0 | 0 | .749 | | 457 | | L6-11 |
| | .15 | 0 | 0 | .518 | | 391 | | L7-1 |
| | | -4 | 0 | .518 | | 392 | | L7-2 |
| | | -10 | 0 | .518 | | 393 | | L7-3 |
| | | -20 | 0 | .516 | | 394 | | L7-4 |
| | | 4 | 0 | .515 | | 395 | | L7-5 |
| | | 10 | 0 | .516 | | 396 | | L7-6 |
| | | 20 | 0 | .525 | | 397 | | L7-7 |
| | | 0 | -4 | .518 | | 398 | | L7-8 |
| | | 0 | -10 | .515 | | 399 | | L7-9 |
| | | 0 | 4 | .519 | | 400 | | L7-10 |
| | | 0 | 10 | .518 | | 401 | | L7-11 |
| | | 4 | 10 | .516 | | 402 | | L7-12 |
| | | 4 | 4 | .518 | | 403 | | L7-13 |
| | | 4 | -4 | .516 | | 404 | | L7-14 |
| | | 4 | -10 | .515 | | 405 | | L7-15 |
| | | -4 | -10 | .527 | | 406 | | L7-16 |
| | | -4 | -4 | .515 | | 407 | | L7-17 |
| | | -4 | +4 | .521 | | 408 | | L7-18 |
| | | -4 | 10 | .526 | | 409 | | L7-19 |
| | | 0 | 0 | .516 | | 410 | | L7-20 |
| | | 0 | 0 | .667 | | 411 | | L8-1 |
| | | -4 | 0 | .666 | | 412 | | L8-2 |
| | | -10 | 0 | .666 | | 413 | | L8-3 |
| | | -20 | 0 | .668 | | 414 | | L8-4 |
| | | 4 | 0 | .669 | | 415 | | L8-5 |
| | | 10 | 0 | .670 | | 416 | | L8-6 |
| | | 20 | 0 | .669 | | 417 | | L8-7 |
| | | 0 | -4 | .670 | | 418 | | L8-8 |
| | | 0 | -10 | .668 | | 419 | | L8-9 |
| | | 0 | 4 | .670 | | 420 | | L8-10 |
| | | 0 | 10 | .669 | ↓ | 421 | ↓ | L8-11 |

[illegible]

Configuration C1I1S0B1E2

[illegible]

TABLE 3-1 (Continued)
LOW SPEED INDEX
Configuration CC1I1S0B0E2

[illegible]

RYAN

TABLE 3-1 (Continued)
LOW SPEED INDEX
Configuration C110S0B1E2

| | M_o | α | β | m/m^* | Data Plotted* | Tabulated Data | | CASE |
|--|-------|----------|---------|---------|------------------|----------------|--------|--------|
| | | | | | | Page | Volume | |
| | 0 | 0 | 0 | .389 | 1 | 259 | II | L11-8 |
| | | | | .526 | | 260 | | L11-5 |
| | | | | .599 | | 261 | | L11-4 |
| | | | | .678 | | 262 | | L11-1 |
| | | | | .749 | | 263 | | L11-9 |
| | | | | .750 | | 264 | | L11-10 |
| | | | | .759 | | 265 | | L11-12 |
| | | | | .827 | | 266 | | L11-11 |
| | | | | .819 | | 267 | | L11-13 |
| | | | | .813 | | 268 | | L11-14 |
| | | | | .816 | | 269 | | L11-15 |
| | .15 | 0 | 0 | .518 | | 270 | | L12-1 |
| | | -4 | 0 | .518 | | 271 | | L12-2 |
| | | -10 | 0 | .516 | | 272 | | L12-3 |
| | | -20 | 0 | .520 | | 273 | | L12-4 |
| | | 4 | 0 | .520 | | 274 | | L12-5 |
| | | 10 | 0 | .518 | | 275 | | L12-6 |
| | | 20 | 0 | .516 | | 276 | | L12-7 |
| | | 0 | -4 | .517 | | 277 | | L12-8 |
| | | 0 | -10 | .519 | | 278 | | L12-9 |
| | | 0 | 4 | .520 | | 279 | | L12-10 |
| | | 0 | 10 | .520 | | 280 | | L12-11 |
| | | 4 | 10 | .518 | | 281 | | L12-12 |
| | | 4 | 4 | .517 | | 282 | | L12-13 |
| | | 4 | -4 | .516 | | 283 | | L12-14 |
| | | 4 | -10 | .509 | | 284 | | L12-15 |
| | | -4 | -10 | .512 | | 285 | | L12-16 |
| | | -4 | -4 | .517 | | 286 | | L12-17 |
| | | -4 | 4 | .494 | | 287 | | L12-18 |
| | | -4 | 10 | .519 | | 288 | | L12-19 |
| | | 0 | 0 | .519 | | 289 | | L12-20 |
| | | 0 | 0 | .667 | | 290 | | L13-1 |
| | | -4 | 0 | .666 | | 291 | | L13-2 |
| | | -10 | 0 | .668 | | 292 | | L13-3 |
| | | -20 | 0 | .670 | | 293 | | L13-4 |
| | | 4 | 0 | .669 | | 294 | | L13-5 |
| | | 10 | 0 | .669 | | 295 | | L13-6 |
| | | 20 | 0 | .668 | | 296 | | L13-7 |
| | | 0 | -4 | .669 | ↓ | 297 | ↓ | L13-8 |

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TABLE 3-1 (Continued)
LOW SPEED INDEX
Configuration C110S0B1E2

| | M_o | α | β | m/m^* | Data Plotted* | Tabulated Data | | CASE |
|--|-------|----------|---------|---------|------------------|----------------|--------|--------|
| | | | | | | Page | Volume | |
| | .15 | 0 | -10 | .666 | 1 | 298 | II | L13-9 |
| | | 0 | 4 | .668 | | 299 | | L13-10 |
| | | 0 | 10 | .667 | | 300 | | L13-11 |
| | | 4 | 10 | .669 | | 301 | | L13-12 |
| | | 4 | 4 | .671 | | 302 | | L13-13 |
| | | 4 | -4 | .668 | | 303 | | L13-14 |
| | | 4 | -10 | .668 | | 304 | | L13-15 |
| | | -4 | -10 | .665 | | 305 | | L13-16 |
| | | -4 | -4 | .667 | | 306 | | L13-17 |
| | | -4 | 4 | .668 | | 307 | | L13-18 |
| | | -4 | 10 | .669 | | 308 | | L13-19 |
| | | 0 | 0 | .669 | | 309 | | L13-20 |
| | | 0 | 0 | .741 | | 310 | | L14-1 |
| | | -4 | 0 | .740 | | 311 | | L14-2 |
| | | -10 | 0 | .740 | | 312 | | L14-3 |
| | | -20 | 0 | .741 | | 313 | | L14-4 |
| | | 4 | 0 | .742 | | 314 | | L14-5 |
| | | 10 | 0 | .741 | | 315 | | L14-6 |
| | | 20 | 0 | .746 | | 316 | | L14-7 |
| | | 0 | -4 | .746 | | 317 | | L14-8 |
| | | 0 | -10 | .736 | | 318 | | L14-9 |
| | | 0 | 4 | .743 | | 319 | | L14-10 |
| | | 0 | 10 | .740 | | 320 | | L14-11 |
| | | 4 | 10 | .738 | | 321 | | L14-12 |
| | | 4 | 4 | .739 | | 322 | | L14-13 |
| | | 4 | -4 | .741 | | 323 | | L14-14 |
| | | 4 | -10 | .738 | | 324 | | L14-15 |
| | | -4 | -10 | .740 | | 325 | | L14-16 |
| | | -4 | -4 | .741 | | 326 | | L14-17 |
| | | -4 | +4 | .739 | | 327 | | L14-18 |
| | | -4 | -10 | .740 | | 328 | | L14-19 |
| | | 0 | 0 | .738 | | 329 | | L14-20 |
| | | 0 | 0 | .739 | | 330 | | L14-21 |
| | | -4 | 0 | .738 | | 331 | | L14-22 |
| | | -10 | 0 | .738 | | 332 | | L14-23 |
| | | -20 | 0 | .740 | | 333 | | L14-24 |
| | | 4 | 0 | .740 | | 334 | | L14-25 |
| | | 10 | 0 | .739 | | 335 | | L14-26 |
| | | 20 | 0 | .741 | | 336 | | L14-27 |
| | | 0 | -4 | .740 | ▼ | 337 | ▼ | L14-28 |

Abstract

Configuration C1I0S0B1E2

[illegible]

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TABLE 3-1 (Continued)
LOW SPEED INDEX
Configuration C1I0S0B0E2

[illegible]

RYAN

TABLE 3-1 (Continued)
LOW SPEED INDEX
Configuration C112S2B1E2

| | M_o | α | β | m/m^* | Data Plotted* | Tabulated Data | | CASE |
|--|-------|----------|---------|---------|------------------|----------------|--------|--------|
| | | | | | | Page | Volume | |
| | 0 | 0 | 0 | .379 | 1 | 651 | II | L1-13 |
| | | 0 | 0 | .379 | | 652 | | L1-14 |
| | | 0 | 0 | .524 | | 653 | | L1-7 |
| | | 0 | 0 | .524 | | 654 | | L1-8 |
| | | 0 | 0 | .599 | | 655 | | L1-5 |
| | | 0 | 0 | .599 | | 656 | | L1-6 |
| | | 0 | 0 | .599 | | 657 | | L1-22 |
| | | 0 | 0 | .676 | | 658 | | L1-23 |
| | | 0 | 0 | .680 | | 659 | | L1-26 |
| | | 0 | 0 | .677 | | 660 | | L1-16 |
| | | 0 | 0 | .748 | | 661 | | L1-17 |
| | | 0 | 0 | .750 | | 662 | | L1-20 |
| | | 0 | 0 | .750 | | 663 | | L1-24 |
| | | 0 | 0 | .738 | | 664 | | L1-25 |
| | | 0 | 0 | .801 | | 665 | | L1-21 |
| | .15 | 0 | 0 | .518 | | 666 | | L2-1 |
| | | -4 | 0 | .519 | | 667 | | L2-2 |
| | | -10 | 0 | .518 | | 668 | | L2-3 |
| | | -20 | 0 | .518 | | 669 | | L2-4 |
| | | 4 | 0 | .518 | | 670 | | L2-5 |
| | | 10 | 0 | .518 | | 671 | | L2-6 |
| | | 20 | 0 | .519 | | 672 | | L2-7 |
| | | 0 | -4 | .519 | | 673 | | L2-8 |
| | | 0 | -10 | .519 | | 674 | | L2-9 |
| | | 0 | 4 | .518 | | 675 | | L2-10 |
| | | 0 | 10 | .518 | | 676 | | L2-11 |
| | | 4 | 10 | .518 | | 677 | | L2-12 |
| | | 4 | -4 | .519 | | 678 | | L2-14 |
| | | 4 | 4 | .520 | | 679 | | L2-13 |
| | | 4 | -10 | .519 | | 680 | | L2-15 |
| | | 4 | -10 | .520 | | 681 | | L2-15r |
| | | -4 | -10 | .517 | | 682 | | L2-16 |
| | | -4 | -4 | .517 | | 683 | | L2-17 |
| | | -4 | -4 | .519 | | 684 | | L2-18 |
| | | -4 | +4 | .518 | | 685 | | L2-19 |
| | | -4 | 10 | .518 | | 686 | | L2-20 |
| | | 0 | 0 | .518 | | 687 | | L2-21 |
| | | 0 | 0 | .669 | | 688 | | L3-1 |
| | | -4 | 0 | .670 | | 689 | | L3-2 |

RYAN

TABLE 3-1 (Continued)
LOW SPEED INDEX
Configuration C112S2B1E2

| | M_o | α | β | m/m^* | Date Plotted * | Tabulated Data | | CASE |
|--|-------|----------|---------|---------|-------------------|----------------|--------|-------|
| | | | | | | Page | Volume | |
| | .15 | -10 | 0 | .670 | 1 | 690 | II | L3-3 |
| | | -20 | 0 | .669 | | 691 | | L3-4 |
| | | 4 | 0 | .669 | | 692 | | L3-5 |
| | | 10 | 0 | .669 | | 693 | | L3-6 |
| | | 20 | 0 | .671 | | 694 | | L3-7 |
| | | 0 | -4 | .669 | | 695 | | L3-8 |
| | | 0 | -10 | .668 | | 696 | | L3-9 |
| | | 0 | 4 | .670 | | 697 | | L3-10 |
| | | 0 | 10 | .669 | | 698 | | L3-11 |
| | | 4 | 10 | .668 | | 699 | | L3-12 |
| | | 4 | 4 | .668 | | 700 | | L3-13 |
| | | 4 | -4 | .669 | | 701 | | L3-14 |
| | | 4 | -10 | .667 | | 702 | | L3-15 |
| | | -4 | -10 | .668 | | 703 | | L3-16 |
| | | -4 | -4 | .668 | | 704 | | L3-17 |
| | | -4 | 4 | .669 | | 705 | | L3-18 |
| | | -4 | 10 | .669 | | 706 | | L3-19 |
| | | 0 | 0 | .669 | | 707 | | L3-20 |
| | | 0 | 0 | .667 | | 708 | | L3-21 |
| | | 0 | 0 | .738 | | 709 | | L4-1 |
| | | -4 | 0 | .744 | | 710 | | L4-2 |
| | | -10 | 0 | .738 | | 711 | | L4-3 |
| | | -20 | 0 | .738 | | 712 | | L4-4 |
| | | 4 | 0 | .739 | | 713 | | L4-5 |
| | | 10 | 0 | .741 | | 714 | | L4-6 |
| | | 20 | 0 | .740 | | 715 | | L4-7 |
| | | 0 | -4 | .740 | | 716 | | L4-8 |
| | | 0 | -10 | .738 | | 717 | | L4-9 |
| | | 0 | 4 | .733 | | 718 | | L4-10 |
| | | 0 | 10 | .739 | | 719 | | L4-11 |
| | | 4 | 10 | .739 | | 720 | | L4-12 |
| | | 4 | 4 | .739 | | 721 | | L4-13 |
| | | 4 | -4 | .741 | | 722 | | L4-14 |
| | | 4 | -10 | .740 | | 723 | | L4-15 |
| | | -4 | -10 | .741 | | 724 | | L4-16 |
| | | -4 | -4 | .742 | | 725 | | L4-17 |
| | | -4 | 4 | .739 | | 726 | | L4-18 |
| | | -4 | 10 | .739 | | 727 | | L4-19 |
| | | 0 | 0 | .740 | | 728 | | L4-20 |
| | | 0 | 0 | .739 | | 729 | | L4-21 |

RYAN

TABLE 3-1 (Continued)
LOW SPEED INDEX
Configuration C112S2B1E2

| | M_o | α | β | m/m^* | Data Plotted* | Tabulated Data | | CASE |
|--|-------|----------|---------|---------|------------------|----------------|--------|-------|
| | | | | | | Page | Volume | |
| | .15 | -4 | 0 | .739 | 1 | 730 | II | L4-22 |
| | | -10 | 0 | .740 | | 731 | | L4-23 |
| | | 4 | 0 | .739 | | 732 | | L4-24 |
| | | 10 | 0 | .738 | | 733 | | L4-25 |
| | | 0 | -4 | .735 | | 734 | | L4-26 |
| | | 0 | -10 | .728 | | 735 | | L4-27 |
| | | 0 | 4 | .742 | | 736 | | L4-28 |
| | | 0 | 10 | .743 | | 737 | | L4-29 |
| | | 0 | 0 | .743 | | 738 | | L4-30 |
| | | 0 | 0 | .740 | | 739 | | L4-31 |
| | | 0 | 0 | .740 | | 740 | | L4-32 |
| | | -4 | 0 | .737 | | 741 | | L4-34 |
| | | -10 | 0 | .739 | | 742 | | L4-35 |
| | | 4 | 0 | .739 | | 743 | | L4-36 |
| | | 10 | 0 | .740 | | 744 | | L4-37 |
| | | 0 | 0 | .823 | | 745 | | L5-2 |
| | | -4 | 0 | .822 | | 746 | | L5-3 |
| | | -10 | 0 | .815 | | 747 | | L5-4 |
| | | -20 | 0 | .830 | | 748 | | L5-5 |
| | | 4 | 0 | .812 | | 749 | | L5-6 |
| | | 10 | 0 | .812 | | 750 | | L5-7 |
| | | 20 | 0 | .807 | | 751 | | L5-8 |
| | | 0 | -4 | .809 | | 752 | | L5-9 |
| | | 0 | -10 | .804 | | 753 | | L5-10 |
| | | 0 | 4 | .819 | | 754 | | L5-11 |
| | | 0 | 10 | .814 | | 755 | | L5-12 |
| | | 4 | 10 | .824 | | 756 | | L5-13 |
| | | 4 | 4 | .819 | | 757 | | L5-14 |
| | | 4 | -4 | .808 | | 758 | | L5-15 |
| | | 4 | -10 | .799 | | 759 | | L5-16 |
| | | -4 | -10 | .802 | | 760 | | L5-17 |
| | | -4 | -4 | .813 | | 761 | | L5-18 |
| | | -4 | 4 | .817 | | 762 | | L5-19 |
| | | -4 | 10 | .821 | | 763 | | L5-20 |
| | | 0 | 0 | .817 | | 764 | | L5-21 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

SECRET

TABLE 3-1 (Continued)
LOW SPEED INDEX
Configuration C1I2S2B0E2

[illegible]

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Configuration C2I1S1B1E2

[illegible]

SECRET

Configuration C1I1S1B1E1

[illegible]

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TABLE 3-1 (Continued)
LOW SPEED INDEX
Configuration C1I0S1B1E1

[illegible]

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TABLE 3-1 (Continued)
LOW SPEED INDEX
Configuration C1I2S2B1E1

[illegible]

Page 1 of 1

Configuration C1I0S0B1E1

[illegible]

Run 11-12 C1 IO SO B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ m/m*-.577 0.731

Pt/Pto 131-144

1.000 1.000 1.000 1.000 1.000 1.000 .999 .999 .999 .999 .999 .991 .997

Cp 330-344

~~1.000~~ -.000 -.000 -.000 -.001 -.000 -.000 -.000 -.000 -.000 -.000 -.013 -.002 -.010

Pt/Pto 101-130

.948 .885 .949 .961 1.000 1.000 .981 .892 .961 .973
1.000 1.000 .997 .901 .955 .988 1.000 .999 .998 .919
.948 .998 1.000 1.000 .996 .954 .967 .999 1.000 1.000

Ptc = 14.294 Ptc/Pto = .972 K = .1178

Cp 310-320

~~1.000~~ -.038 -.015 -.008 -.005 -.002 -.000 -.000 -.000 -.000 -.000 -.000

Cp 321-329

~~1.000~~ -.024 -.010 -.006 -.004 -.001 -.000 -.000 -.000

Ps 301-309 13.901 13.890 13.980 14.271 10.718 12.108 12.105 12.097 12.142

Ps 201-206 11.971 12.162 12.285 12.204 11.957 11.790

Ps 207-212 11.324 11.503 11.575 11.373 11.310 11.225

Ps 213-224 n.g. n.g. ~~10.916~~ 9.535 10.522 11.081 11.300 11.482 11.616 12.317 12.336 12.427

Ps 225-236 10.009 n.g. 9.596 10.139 10.835 11.060 11.076 11.055 11.060 14.690 12.148 12.440

Ps 237-245 14.694 13.924 12.447 11.597 11.424 11.863 11.790 11.519 11.564

Pcw = 12.061 L = .0347 Feb = 11.385 Ptc/Pcw = 1.185 Wc = 1.84 T = 73. B = 29.91

Run 11-11 C1 IO SO B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^*=$ 0.794, 0.805

| | | | | | | | | | | | | |
|----------------|------------------|------------------|-----------------|-----------|---------|-----------|--------|--------|--------|-------------------|------------------|--------|
| Pt/Pto 131-144 | 1.000 | 1.000 | 1.000 | 1.000 | .995 | .997 | .998 | .999 | .999 | .998 | -.988 | .996 |
| Cp 330-344 | -.000 | -.000 | -.000 | -.001 | -.000 | -.000 | -.000 | -.000 | -.000 | -.003 | -.017 | -.002 |
| | | | | | | | | | | | | -.012 |
| Pt/Pto 101-130 | | | | | | | | | | | | |
| .938 | .871 | .944 | .959 | .999 | 1.000 | .974 | .888 | .949 | .974 | | | |
| .999 | 1.000 | .999 | .910 | .936 | .982 | .998 | 1.000 | .999 | .937 | | | |
| .937 | .994 | .994 | 1.000 | 1.000 | .973 | .974 | .985 | .994 | 1.000 | | | |
| Ptc = 14.298 | Ptc/Pto = .970 | K = .1326 | | | | | | | | | | |
| Cp 310-320 | -.001 | -.043 | -.017 | -.009 | -.005 | -.002 | -.000 | -.000 | -.000 | -.000 | -.000 | |
| Cp 321-329 | -.006 | -.024 | -.011 | -.006 | -.004 | -.002 | -.000 | -.000 | -.000 | | | |
| Ps 301-309 | 13.381 | 13.235 | 13.368 | 13.672 | 14.114 | 11.723 | 11.726 | 11.688 | 11.719 | | | |
| Ps 201-206 | 11.412 | 11.655 | 11.801 | 11.732 | 11.435 | 11.241 | | | | | | |
| Ps 207-212 | 14.605 | 10.747 | 10.955 | 14.535 | 14.722 | 14.514 | | | | | | |
| Ps 213-224 | n.g. | n.g. | n.g. | n.g. | n.g. | 10.238 | 10.523 | 10.762 | 10.951 | 11.919 | 11.935 | 12.025 |
| Ps 225-236 | 9.652 | n.g. | n.g. | n.g. | 9.695 | 10.269 | 10.445 | 10.517 | 10.549 | 14.723 | 11.721 | 12.044 |
| Ps 237-245 | 14.729 | 13.862 | 12.107 | 11.058 | 10.850 | 11.383 | 11.306 | 10.967 | 11.017 | | | |
| Pev = 11.546 | L = .0392 | Peb = 13.346 | Ptc/Pev = 1.238 | Wc = 2.01 | T = 64. | B = 29.98 | | | | | | |

Run 11-15 C1 IO SO B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ m/m².

Pt/Pto 131-144

1.000 1.000 1.000 1.000 1.000 1.000 .999 .999 .999 .998 .989 .997

Cp 330-344

~~1.000~~ -.000 -.000 -.000 -.001 -.000 -.000 -.000 -.000 -.000 -.002 -.016 -.002 -.013

Pt/Pto 101-130

.932 .854 .946 .959 .999 .999 .949 .856 .960 .984
1.000 .999 .980 .864 .951 .998 1.000 1.000 .992 .885
.934 1.000 1.000 1.000 .990 .929 .952 .998 1.000 1.000

Ptc = 14.168 Ptc/Pto = .964 K = .1516

Cp 310-320

~~1.000~~ -.046 -.019 -.011 -.007 -.003 -.000 -.000 -.000 -.000 -.000

Cp 321-329

~~1.000~~ -.029 -.013 -.007 -.004 -.002 -.000 -.000 -.000

Ps 301-309 12.979 12.878 12.920 13.256 13.752 11.428 11.491 11.466 11.584

Ps 201-206 11.374 11.615 11.761 11.702 11.389 11.160

Ps 207-212 14.596 10.879 10.947 14.671 14.555 14.441

Ps 213-224 n.g. n.g. ~~9.619~~ n.g. 9.586 10.265 10.523 10.741 10.916 11.738 11.738 11.903

Ps 225-236 n.g. n.g. n.g. n.g. 10.004 10.293 10.299 10.258 10.250 14.687 11.542 11.912

Ps 237-245 14.690 13.831 12.057 10.972 10.753 11.291 11.181 10.827 10.905

Pev = 11.500 L = .0424 Peb = 13.348 Ptc/Pev = 1.232 Wc = 1.97 T = 69. B = 29.91

Run 12-1 C1 IO SO B1 Eng 2 =0 =0 m/m*=.474 0.512

Pt/Pto 131-144

.997 1.000 1.000 1.000 .994 .991 1.000 1.000 1.000 .998 .994 .990 .984 .984

Cp 330-344

.149 -.271 -.535 -.420 -.218 .459 -.156 -.507 -.672 -.596 -.488 -.314 -.512 -.260 -.344

Pt/Pto 101-130

.976 .989 .980 .974 1.000 1.000 .999 1.000 .994 .985
1.000 1.000 1.000 .999 .993 1.000 1.000 1.000 1.000
1.000 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.926 Ptc/Pto = .996 K = .0259

Cp 310-320

.026 .801 .503 .233 .199 .026 -.146 -.198 -.185 -.136 -.090

Cp 321-329

1.343 .726 .459 .289 .177 .009 -.064 -.118 -.193

Ps 301-309 13.285 13.331 13.519 13.708 13.851 14.004 14.038 14.056 14.061

Ps 201-206 13.992 14.037 14.059 14.032 13.942 13.881

Ps 207-212 13.714 13.739 13.956 13.747 13.722 13.682

Ps 213-224 14.550 13.507 12.020 13.244 13.402 13.697 13.738 13.788 13.831 14.169 14.174 14.145

Ps 225-236 14.409 13.396 12.932 13.011 13.303 13.524 13.554 13.606 13.661 14.754 14.149 14.256

Ps 237-245 14.980 14.657 14.099 13.825 13.797 13.955 13.942 13.838 13.819

Pcw = 13.991 L = .0119 Pcb = 13.727 Ptc/Pcw = 1.067 Mc = 1.28 T = 78. B = 30.02

Run 12-2 C1 IO SC 21 Eng 2 $\alpha = -4^\circ$ $\beta = 0^\circ$ $m/\pi = 1.74$ 0.513

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ .995 .992 1.000 1.000 1.000 .999 .995 .991 ~~1.000~~ .984

Cp 330-344

~~1.000~~ -.220 -.482 -.394 -.213 .496 -.074 -.419 -.597 -.541 -.449 -.300 -.506 -.242 -.343

Pt/Pto 101-130

.975 .988 .980 .976 1.000 1.000 .939 1.000 .996 .986
1.000 1.000 1.000 1.000 .995 1.000 1.000 1.000 1.000
1.000 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.930 Ptc/Pto = .996 R = .0253

Cp 310-320

~~1.000~~ .875 .597 .369 .274 .089 -.111 -.172 -.163 -.129 -.094

Cp 321-329

~~1.000~~ .635 .307 .209 .096 -.062 -.106 -.141 -.190

Ps 301-309 13.296 13.341 13.372 13.384 13.913 14.017 14.051 14.066 14.071

Ps 261-269 13.998 14.047 14.089 14.039 13.950 13.890

Ps 207-212 13.724 13.749 13.766 13.757 13.731 13.693

Ps 213-224 14.445 13.410 ~~13.410~~ 13.415 13.372 13.699 13.742 13.794 13.839 14.175 14.179 14.151

Ps 225-235 14.491 13.505 13.029 13.081 13.317 13.597 13.580 13.603 13.680 ~~14.150~~ 14.150 14.263

Ps 237-245 14.960 14.658 14.105 13.834 13.806 13.964 13.951 13.848 13.829

Pev = 13.999 L = .0119 Pev = 13.737 Ptc/Pev = 1.000 M2 = 1.23 T = 79. B = 30.02

Run 12-3 CL 10 SO Bl Eng 2 $\alpha=10^\circ$ $\beta=C^\circ$ m/m ~~1.000~~ 0.510 0.515

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ .997 .993 1.000 1.000 1.000 .997 .993 ~~1.000~~ .984

Cp 330-344

~~1.000~~ .133 -.388 -.336 -.196 .580 .072 -.255 -.447 -.444 -.308 -.559 -.505 -.208 -.327

Pt/Pto 101-130

.975 .927 .981 .978 1.000 1.000 .996 1.000 .928 .900
1.000 1.000 1.000 1.000 .997 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.931 Ptc/Pto = .996 K = .0455

Cp 310-320

~~1.000~~ .926 .707 .512 .405 .001 -.032 -.114 -.123 -.099 -.084

Cp 321-329

~~1.000~~ .515 .231 .007 -.001 -.170 -.190 -.205 -.230

Ps 301-309 13.487 13.383 13.671 13.900 14.009 14.034 14.073 14.086 14.093

Ps 401-406 14.024 14.071 14.092 14.063 13.975 13.917

Ps 207-212 13.755 13.780 13.796 13.780 13.764 13.745

Ps 213-224 14.235 13.234 ~~14.234~~ 13.124 13.310 13.608 13.744 13.804 13.852 14.157 14.201 14.172

Ps 225-236 14.584 13.645 13.150 13.171 13.360 13.608 13.621 13.662 13.712 ~~14.172~~ 14.180 14.289

Ps 237-245 14.982 14.684 14.148 13.879 13.847 13.993 13.578 13.677 13.858

Pcw = 14.024 L = .0117 Pcb = 13.768 Ptc/Pcw = 1.065 Wc = 1.26 T = 79. B = 30.02

Run 12-4 C1 IO SO B1 Evg 2 $\alpha = -20^\circ$ $\beta = 0^\circ$ m/m ~~0.514~~ 0.514 0.511

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ .999 .996 1.000 1.000 1.000 1.000 .996 ~~1.000~~ .984

Cp 330-344

~~1.000~~ -.001 -.218 -.224 -.154 .716 .336 .042 -.152 -.197 -.170 -.149 .465 -.106 -.236

Pt/Pto 101-130

.977 .987 .987 .981 1.000 1.000 .992 1.000 1.000 .994
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.341 Ptc/Pto = .997 K = .0433

Cp 310-320

~~1.012~~ 1.012 .897 .734 .635 .423 .132 .028 -.004 -.009 -.030

Cp 321-329

~~1.012~~ .299 .026 -.125 -.235 -.394 -.382 -.361 -.360

Ps 301-309 13.836 13.480 13.873 14.068 14.109 14.051 14.081 14.095 14.097

Ps 201-206 14.027 14.075 14.098 14.058 13.977 13.921

Ps 207-212 13.759 13.783 13.797 13.791 13.769 13.729

Ps 213-224 13.722 12.874 ~~12.874~~ 13.032 13.222 13.651 13.724 13.798 13.850 14.199 14.202 14.172

Ps 225-236 14.674 13.804 13.307 13.271 13.438 13.656 13.659 13.693 13.735 ~~14.731~~ 14.184 14.296

Ps 237-245 14.981 14.669 14.133 13.868 13.843 13.995 13.980 13.981 13.862

Pev = 14.028 L = .0119 Peb = 13.771 Ptc/Pev = 1.065 Wc = 1.27 T = 79. B = 30.02

Run 12-5 C1 IO SO B1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ m/m² = .0014

Pt/Pto 131-144

~~131-144~~ 1.000 .999 ~~1.000~~ .992 .000 1.000 1.000 .998 .995 .992 .989 ~~.984~~ .984

Cp 330-344

~~1147~~ -.322 -.583 -.444 -.222 .418 -.237 -.587 -.736 -.636 -.511 -.315 -.498 -.263 -.329

Pt/Pto 101-130

.978 .989 .781 .974 1.000 1.000 1.000 1.000 .994 .983
1.000 1.000 1.000 1.000 .999 .991 1.000 1.000 1.000 1.000
1.000 .997 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.927 Ptc/Pto = .996 K = .0267

Cp 310-320

~~1113~~ .718 .411 .200 .118 -.035 -.175 -.217 -.194 -.136 -.081

Cp 321-329

~~1136~~ .805 .547 .362 .247 .072 -.033 -.106 -.120

Ps 301-309

13.344 13.393 13.525 13.687 13.826 14.021 14.063 14.002 14.077

Ps 201-206

14.016 14.061 14.080 14.053 13.965 13.907

Ps 207-212

13.745 13.769 13.784 13.775 13.752 13.715

Ps 213-224

14.663 13.642 ~~12.587~~ 13.314 13.466 13.722 13.766 13.811 13.852 14.187 14.162

Ps 225-236

14.336 13.315 12.875 12.985 13.335 13.523 13.563 13.619 13.675 ~~14.754~~ 14.163 14.268

Ps 237-245

14.983 14.681 14.132 13.864 13.834 13.983 13.967 13.865 13.847

Pcv = 14.014 L = .0116 Pcb = 13.757 Ftc/Fcv = 1.065 Wc = 1.26 T = 80. B = 30.02

Run 12-6 C1 IO SO B3 Eng 2 $\alpha=10^\circ$ $\beta=0^\circ$ m/m² = ~~1.74~~ 0.612

| | | | | | | | | | | | | | |
|----------------|------------------|-----------------|-------------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|-----------------|-----------------|-----------------|
| Pt/Pto 131-144 | .993 | .996 | 1.000 | .990 | .988 | .999 | .998 | .995 | .993 | .990 | .987 | .984 | .983 |
| Cp 330-344 | 1.000 | .993 | .996 | 1.000 | .990 | .988 | .999 | .998 | .995 | .993 | .990 | .987 | .983 |
| | 1.000 | .993 | .996 | 1.000 | .990 | .988 | .999 | .998 | .995 | .993 | .990 | .987 | .983 |
| Pt/Pto 101-130 | .980 | .981 | .972 | 1.000 | 1.000 | 1.000 | 1.000 | .992 | .981 | | | | |
| | 1.000 | .993 | .996 | 1.000 | .990 | .988 | .999 | .998 | .995 | .993 | .990 | .987 | .983 |
| | 1.000 | .993 | .996 | 1.000 | .990 | .988 | .999 | .998 | .995 | .993 | .990 | .987 | .983 |
| Ptc = 14.945 | Ptc/Pto = .996 | K = .0283 | | | | | | | | | | | |
| Cp 310-320 | .988 | .928 | .307 | .099 | .030 | -.101 | -.199 | -.226 | -.195 | -.114 | -.061 | | |
| Cp 321-329 | .974 | .654 | .461 | .345 | .155 | -.007 | -.111 | -.219 | | | | | |
| Ps 301-309 | 13.412 | 13.408 | 13.492 | 13.629 | 13.763 | 14.007 | 14.050 | 14.075 | 14.079 | | | | |
| Ps 201-206 | 14.008 | 14.052 | 14.073 | 14.047 | 13.961 | 13.929 | | | | | | | |
| Ps 207-212 | 13.736 | 13.759 | 13.776 | 13.766 | 13.744 | 13.705 | | | | | | | |
| Ps 213-224 | 14.757 | 13.759 | 12.759 | 13.356 | 13.501 | 13.713 | 13.766 | 13.809 | 13.848 | 14.179 | 14.185 | 14.156 | |
| Ps 225-236 | 14.165 | 13.120 | 12.714 | 12.801 | 13.390 | 13.482 | 13.531 | 13.593 | 13.655 | 14.744 | 14.158 | 14.255 | |
| Ps 237-245 | 14.083 | 14.676 | 14.127 | 13.552 | 13.821 | 13.971 | 13.959 | 13.896 | 13.839 | | | | |
| Pew = 14.007 | L = .0117 | Feb = 13.748 | Ptc/Pew = 1.066 | Mc = 1.27 | T = 80. | B = 30.02 | | | | | | | |

Run 12-7 C1 IO S0 B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $m/m^*=1.474$ C.510

| | | | | | | | | | | | | | |
|----------------|-----------------|--------------|-------------------|-----------|---------|-----------|--------|--------|--------|-------------------|--------|-----------------|-------|
| Pt/Pto 131-144 | .997 | .994 | .994 | .989 | .988 | .998 | .997 | .994 | .992 | .989 | .986 | .983 | .983 |
| Cp 330-344 | .982 | .982 | .982 | .982 | .982 | .982 | .982 | .982 | .982 | .982 | .982 | .982 | .982 |
| Pt/Pto 101-130 | .982 | .981 | .974 | .970 | 1.000 | 1.000 | .994 | .979 | .977 | | | | |
| | 1.000 | 1.000 | 1.000 | .999 | .985 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| | .994 | .997 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Ptc = 14.894 | Ptc/Pto = .994 | K = .0308 | | | | | | | | | | | |
| Cp 310-320 | .469 | .469 | .180 | -.006 | -.052 | -.150 | -.180 | -.193 | -.142 | -.078 | -.054 | | |
| Cp 321-329 | .937 | .937 | .775 | .595 | .476 | .257 | -.001 | -.143 | -.286 | | | | |
| Ps 301-309 | 13.348 | 13.366 | 13.315 | 13.412 | 13.546 | 13.950 | 14.023 | 14.031 | 14.033 | | | | |
| Ps 201-206 | 13.962 | 14.011 | 14.030 | 14.003 | 13.915 | 13.850 | | | | | | | |
| Ps 207-212 | 13.680 | 13.704 | 13.722 | 13.709 | 13.687 | 13.650 | | | | | | | |
| Ps 213-224 | 14.840 | 13.875 | 13.875 | 13.373 | 13.502 | 13.656 | 13.732 | 13.775 | 13.812 | 14.141 | 14.142 | 14.116 | |
| Ps 225-236 | 13.764 | 12.701 | 12.381 | 12.651 | 13.242 | 13.308 | 13.459 | 13.533 | 13.612 | 14.731 | 14.078 | 14.183 | |
| Ps 237-245 | 14.983 | 14.652 | 14.074 | 13.790 | 13.759 | 13.922 | 13.908 | 13.802 | 13.784 | | | | |
| Pcw = 13.962 | L = .0121 | Pcb = 13.692 | Ptc/Pcw = 1.067 | Mc = 1.27 | T = 91. | B = 30.02 | | | | | | | |

Run 12-8 C1 IO S0 B1 Eng 2 =0 =4 m/m² = .474 0.511

Pt/Pto 131-144

.998 1.000 1.000 1.000 .994 .991 1.000 1.000 .998 .994 .991 .984 .984

Cp 330-344

.236 -.189 -.485 -.398 -.304 .454 -.163 -.509 -.675 -.595 -.486 -.319 -.521 -.254 -.353

Pt/Pto 101-130

.975 .985 .978 .976 1.000 1.000 .999 1.000 .987 .982
1.000 1.000 1.000 .996 .990 1.000 1.000 1.000 1.000
1.000 .996 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.921 Ptc/Pto = .996 K = .0255

Cp 310-320

.026 .797 .512 .287 .197 .021 -.149 -.200 -.185 -.142 -.097

Cp 321-329

1.318 .911 .688 .498 .374 .173 .033 -.047 -.151

Ps 301-309 13.175 13.229 13.382 13.568 13.732 13.978 14.031 14.053 14.057

Ps 201-206 13.990 14.037 14.055 14.030 13.942 13.878

Ps 207-212 13.712 13.736 13.753 13.744 13.718 13.681

Ps 213-224 14.491 13.401 13.023 13.135 13.301 13.631 13.677 13.738 13.789 14.166 14.170 14.142

Ps 225-236 14.050 12.930 12.509 12.707 13.262 13.388 13.451 13.528 13.599 14.754 14.132 14.223

Ps 237-245 14.988 14.701 14.155 13.868 13.825 13.967 13.945 13.836 13.817

Pcw = 13.989 L = .0118 Feb = 13.724 Ptc/Pcw = 1.067 Wc = 1.27 T = 81. B = 30.03

[illegible]

Rm 12-10 C1 IO SC B1 Eng 2 $\alpha=0^\circ$ $\beta=4^\circ$ $m/m^* = .147$ C.515

Pt/Pto 131-144

~~.998~~ 1.000 1.000 ~~1.000~~ .994 .991 1.000 1.000 1.000 .998 .994 .989 ~~.984~~ .984

Cp 330-344

~~.998~~ -.365 -.599 -.457 -.257 .453 -.161 -.513 -.677 -.523 -.492 -.318 -.523 -.271 -.348

Pt/Pto 101-130

.979 .990 .986 .974 1.000 1.000 1.000 1.000 1.000 1.000 .984
1.000 1.000 1.000 1.000 .995 1.000 1.000 1.000 1.000 1.000
1.000 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.744 Ptc/Pto = .997 K = .0254

Cp 310-320

~~.998~~ .794 .493 .266 .150 .093 -.158 -.216 -.202 -.148 -.104

Cp 321-329

.488 .227 .075 -.020 -.143 -.153 -.175 -.232

Ps 301-309 13.558 13.472 13.723 13.921 14.017 14.055 14.082 14.095 14.099

Ps 201-206 14.035 14.079 14.104 14.070 13.986 13.927

Ps 207-212 13.766 13.790 13.805 13.798 13.774 13.737

Ps 213-224 14.521 13.631 ~~13.437~~ 13.374 13.521 13.786 13.819 13.81 13.897 14.208 14.213 14.177

Ps 225-236 14.663 13.617 13.338 13.313 13.491 13.683 13.688 13.712 13.758 ~~14.755~~ 14.191 14.304

Ps 237-245 14.988 14.675 14.132 13.866 13.841 13.996 13.986 13.887 13.869

Pcv = 14.034 L = .0118 Pcb = 13.778 Ptc/Pcv = 1.065 Wc = 1.26 T = 82. B = 30.03

387 ~~484~~ .983

..360 ..612 -.333 -.428

930.

930.

200.

000.

$$K = .0225$$

-179-

-273

14.130

4.00x 13.953

3.803 13.765

14.232 14.138

14.215 14.330

13.895

B = 30.03

$$W_c = 1.25 \quad T = 82.$$
$$P_{TC}/P_{CW} = 1.064$$

Pcb = 13.807

$$= .0117$$

Run 12-12 C1 IO SC BL Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ $m/m^* = .444$ 0.512

Pt/Pto 131-144

~~.997~~ 1.000 1.000 ~~1.000~~ .993 .990 .999 .998 .995 .990 .986 ~~.983~~ .983

Cp 330-344

~~.997~~ -.560 -.733 -.535 -.309 .359 -.264 -.616 -.743 -.668 -.544 -.367 -.507 -.323 -.406

Pt/Pto 101-130

.985 .975 .992 .973 1.000 1.000 1.000 1.000 1.000 1.000 .982
1.000 1.000 1.000 1.000 .998 .999 1.000 1.000 1.000 1.000
.999 .999 .999 1.000 .999 .999 .999 .999 .999 .999

Ptc = 14.945 Ptc/Pto = .997 K = .0266

Cp 310-320

~~.997~~ .653 .377 .158 .078 -.080 -.221 -.274 -.257 -.184 -.130

Cp 321-329

~~.997~~ .171 -.026 -.143 -.210 -.270 -.219 -.217 -.226

Ps 301-309 13.865 13.606 13.936 14.073 14.110 14.075 14.096 14.117 14.130

Ps 201-209 14.056 14.100 14.129 14.092 14.011 13.956

Ps 207-215 13.728 13.822 13.834 13.829 13.807 13.759

Ps 213-224 14.713 13.792 ~~13.792~~ 13.498 13.632 13.846 13.875 13.907 13.937 14.229 14.233 14.200

Ps 225-236 14.856 14.174 13.701 13.576 13.731 13.780 13.795 13.803 13.832 ~~14.744~~ 14.214 14.329

Ps 237-245 14.991 14.743 14.103 13.917 13.879 14.028 14.015 13.917 13.898

Pcw = 14.057 L = .0115 Pco = 15.610 Ptc/rev = 1.063 $\lambda_0 = 1.25$ T = 83. B = 30.03

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-271 -334

136.

2.

050

36.

206

.922

15

1

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Run 12-14 C1 IO SC B1 Eng 2 $\alpha=4^\circ$ $\beta=-4^\circ$ $m/m^* = 1.77$ 0.510

| | | | | | | | | | | | | |
|----------------|-----------------|------------------|-------------------|-----------|---------|-----------|--------|--------|--------|-------------------|-----------------|--------|
| Pt/Pto 131-144 | .999 | 1.000 | .992 | .990 | 1.000 | 1.000 | .999 | .997 | .993 | .989 | .984 | .984 |
| Cp 330-344 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 |
| Pt/Pto 101-130 | .977 | .976 | 1.000 | 1.000 | .999 | .999 | .985 | .983 | | | | |
| | .975 | .984 | 1.000 | 1.000 | .999 | .999 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| | .999 | .995 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Ptc = 14.917 | Ptc/Pto = .995 | K = .0240 | | | | | | | | | | |
| Cp 310-320 | .712 | .402 | .188 | .106 | -.051 | -.191 | -.233 | -.214 | -.155 | -.106 | | |
| Cp 321-329 | .934 | .725 | .538 | .413 | .208 | .037 | -.062 | -.174 | | | | |
| Ps 301-309 | 13.261 | 13.279 | 13.304 | 13.559 | 13.702 | 13.921 | 14.058 | 14.084 | 14.093 | | | |
| Ps 201-206 | 14.032 | 14.076 | 14.092 | 14.069 | 13.987 | 13.926 | | | | | | |
| Ps 207-212 | 13.765 | 13.787 | 13.804 | 13.795 | 13.772 | 13.737 | | | | | | |
| Ps 213-224 | 14.607 | 13.543 | 13.377 | 13.226 | 13.377 | 13.665 | 13.712 | 13.770 | 13.819 | 14.196 | 14.201 | 14.176 |
| Ps 225-236 | 13.972 | 12.663 | 12.477 | 12.704 | 13.279 | 13.407 | 13.477 | 13.557 | 13.633 | 14.175 | 14.156 | 14.242 |
| Ps 237-245 | 14.989 | 14.752 | 14.240 | 13.950 | 13.895 | 14.018 | 13.969 | 13.884 | 13.865 | | | |
| Pew = 14.031 | L = .0111 | Peb = 13.777 | Ptc/Pew = 1.063 | Mc = 1.24 | T = 83. | B = 30.03 | | | | | | |

Run 12-15 C1 10 50 31 Eng $\alpha = 4^\circ$ $\beta = 10^\circ$ $\mu/m = 1.377$ 0.904 0.913

Pt/Fto 131-144

~~1.000~~ 1.000 .999 ~~1.000~~ .993 .990 .999 1.000 1.000 .998 .994 .990 ~~1.000~~ .983

Cp 330-344

~~1.000~~ .999 .995 .980 .970 1.000 1.000 .995 .967 .984 .933

Pt/Fto 101-130

.975 .962 .980 .970 1.000 1.000 .995 .967 .984 .933
1.000 1.000 1.000 .973 .985 .988 1.000 1.000 .970 .970
.989 .995 1.000 1.000 1.000 .991 .996 1.000 1.000 1.000

Ptc = 14.847 Ptc/Ptc = .991 K = .0386

Cp 310-320

~~1.000~~ .998 .370 .133 .052 -.109 -.255 -.304 -.232 -.129

Cp 321-329

~~1.000~~ 1.000 .902 .732 .611 .374 .126 -.009 -.156

Ps 301-309 12.787 12.766 12.935 13.138 13.365 13.834 13.973 13.987 14.000

Ps 201-206 13.955 14.000 14.039 14.065 13.911 13.807

Ps 207-212 13.675 13.709 13.743 13.764 13.585 13.650

Ps 213-224 14.475 13.341 ~~13.322~~ 13.012 13.183 13.536 13.577 13.645 13.702 14.103 14.092

Ps 225-236 13.334 12.259 12.113 12.400 12.992 13.192 13.210 13.422 13.507 ~~14.135~~ 14.004 14.131

Ps 237-245 14.986 14.740 14.197 13.880 13.812 15.931 13.891 13.775 13.766

Pcw = 13.959 L = .0129 Pcb = 13.691 Ptc/Pcw = 1.004 Wc = 1.24 T = 83. B = 30.02

Run 12-16 C1 IO SO B1 Eng 2 $\alpha = -4^\circ$ $\beta = -10^\circ$ $m/m^* = .174$ 0.5C7 0.512

Pt/Pto 131-144
~~.999~~ .999 1.000 ~~.999~~ .995 .992 .999 1.000 1.000 .999 .996 .992 ~~.984~~ .983
 Cp 330-344
~~.999~~ -.037 -.372 -.352 -.198 .433 -.118 -.446 -.611 -.562 -.474 -.354 -.609 -.263 -.411

Pt/Pto 101-130
 .976 .968 .981 .924 1.000 1.000 .995 .977 .987 .986
 1.000 1.000 .983 .991 .987 1.000 1.000 1.000 .987
 .995 .993 1.000 1.000 .996 .999 1.000 1.000 1.000

Itc = 14.876 Ptc/Pto = .993 K = .0319

Cp 310-320
~~.999~~ .768 .537 .322 .229 .043 -.153 -.209 -.203 -.181 -.148

Cp 321-329
~~.999~~ .995 .651 .684 .560 .335 .150 .043 -.074

Ps 301-309 12.750 12.794 13.059 13.332 13.580 13.937 14.016 14.033 14.044

Ps 201-206 13.989 14.035 14.067 14.041 13.951 13.688

Ps 207-212 13.723 13.744 13.763 13.753 13.730 13.694

Ps 213-224 14.242 13.119 ~~13.177~~ 12.936 13.114 13.526 13.582 13.663 13.727 14.156 14.152 14.133

Ps 225-236 13.553 12.399 12.099 12.400 13.061 13.261 13.373 13.488 13.583 ~~14.729~~ 14.669 14.192

Ps 237-245 14.986 14.768 14.256 13.953 13.881 13.990 13.949 13.836 13.818

Pcv = 13.995 L = .0120 Pcb = 13.735 Ptc/Pcv = 1.063 Wc = 1.24 T = 83. B = 30.02

| | | | | | | | | | |
|----------------|-------|-------|------|------|-------|-------|------|------|----------------|
| 999 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 994 |
| 996 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 991 |
| 993 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 988 |
| 990 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 985 |
| 987 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 982 |
| 984 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 979 |
| 981 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 976 |
| 978 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 973 |
| 975 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 970 |
| 972 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 967 |
| 969 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 964 |
| 966 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 961 |
| 963 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 958 |
| 960 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 955 |
| 957 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 952 |
| 954 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 949 |
| 951 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 946 |
| 948 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 943 |
| 945 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 940 |
| 942 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 937 |
| 939 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 934 |
| 936 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 931 |
| 933 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 928 |
| 930 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 925 |
| 927 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 922 |
| 924 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 919 |
| 921 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 916 |
| 918 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 913 |
| 915 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 910 |
| 912 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 907 |
| 909 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 904 |
| 906 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 901 |
| 903 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 898 |
| 900 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 895 |
| 897 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 892 |
| 894 | 1.000 | 1.000 | .995 | .992 | 1.000 | 1.000 | .996 | .992 | 891 |
| 892 | 1.000 | | | | | | | | |

| | |
|-------|--|
| Cy | 330-344 |
| -647- | --124 --.419 --.354 -.182 .492 -.076 -.417 -.593 -.541 -.448 -.306 -.524 -.234 -.345 |

[illegible]

| | | |
|----------------|----------------|-----------|
| Ptc = 14.924 | Ptc/Pto = .996 | K = .0240 |
| Gp 310-320 | .847 | .273 |
| 079 | .585 | .087 |
| | | -.109 |
| | | -.167 |
| | | -.163 |
| | | -.126 |
| | | -.087 |

[illegible]

| | | | | | | | | |
|--------------------|------|------|------|------|------|------|-------|-------|
| CP 321-329 | .856 | .611 | .430 | .306 | .112 | .004 | -.061 | -.145 |
| 321-329 | | | | | | | | |

| | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|
| Pa 301-309 | 13.134 | 13.265 | 13.451 | 13.648 | 13.811 | 14.017 |
| Pa 201-206 | 14.049 | 14.096 | 14.111 | 14.087 | 14.006 | 13.947 |

| | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|
| Pa 201-206 | 14.049 | 14.096 | 14.111 | 14.087 | 14.006 | 13.947 |
| Pa 207-212 | 13.787 | 13.810 | 13.826 | 13.818 | 13.795 | 13.759 |

| | | | | | | |
|------------|--------|--------|-------------------|--------|--------|--------|
| Ps 207-212 | 13.787 | 13.810 | 13.826 | 13.818 | 13.795 | 13.759 |
| Ps 213-224 | 14.394 | 13.328 | 13.105 | 13.140 | 13.301 | 13.662 |

| | | | | | | | | | | | | |
|------------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|-------------------|--------|--------|
| Ps 213-224 | 14.394 | 13.328 | 13.105 | 13.140 | 13.301 | 13.662 | 13.711 | 13.775 | 13.828 | 14.213 | 14.217 | 14.191 |
| Ps 225-236 | 14.181 | 13.092 | 12.662 | 12.830 | 13.324 | 13.457 | 13.515 | 13.586 | 13.658 | 14.748 | 14.185 | 14.273 |

| | | | | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|--------|
| Ps 225-236 | 14.181 | 13.092 | 12.662 | 12.830 | 13.324 | 13.457 | 13.515 | 13.586 | 13.658 | 14.748 | 14.185 | 14.273 |
| F# 237-245 | 14.970 | 14.766 | 14.269 | 13.983 | 13.925 | 14.041 | 14.011 | 13.908 | 13.887 | | | |

| | | | | | | | | | | |
|-----------------|---------|--------|-----------|-------------------|--------|------------------------------------|--------|------------------|--------|--------|
| F _B | 237-245 | 14.930 | 14.766 | 14.269 | 13.983 | 13.925 | 14.041 | 14.011 | 13.908 | 13.887 |
| P _{EW} | = | 14.049 | L = .01.0 | P _{EB} = | 13.799 | P _{TC} /P _{EW} = | 1.062 | W _C = | 1.24 | T |

$P_{EW} = 14.049$ $L = .01.0$ $P_{CB} = 13.799$ $P_{TC}/P_{CW} = 1.062$ $W_C = 1.24$ $T = 83.$ $B = 30.03$

Run 12-18 C1 IO SO B1 Eng 2 $\alpha = 4^\circ$ $\beta = 4^\circ$ $m/\pi = .474$ 0.459

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ .995 .992 1.000 1.000 1.000 .999 .995 .991 ~~.984~~ .984

Cp 330-344

~~.932~~ -.330 -.560 -.444 -.261 .497 -.068 -.418 -.597 -.544 -.450 -.303 -.527 -.264 -.362

Pt/Pto 101-130

.977 .988 .975 1.000 1.000 .999 1.000 1.000 .985
1.000 1.000 1.000 1.000 .998 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.943 Ptc/Pto = .997 K = .0251

Cp 310-320

~~.844~~ .854 .549 .351 .256 .071 -.128 -.195 -.146 -.119

Cp 321-329

~~1.000~~ .362 .144 -.019 -.111 -.226 -.214 -.221 -.246

Ps 301-309 13.761 13.494 13.814 14.009 14.077 14.067 14.098 14.116 14.119

Ps 201-206 14.051 14.093 14.119 14.086 14.002 13.945

Ps 207-212 13.786 13.810 13.825 13.818 13.793 13.757

Ps 213-224 14.508 13.520 ~~13.459~~ 13.338 13.483 13.786 13.813 13.865 13.905 14.220 14.225 14.194

Ps 225-236 14.735 13.901 13.418 13.368 13.540 13.717 13.713 13.742 13.779 ~~14.754~~ 14.205 14.318

Ps 237-245 14.989 14.697 14.167 13.900 13.670 14.018 14.004 13.907 13.888

Pcv = 14.049 L = .0116 Fcv = 13.798 Ptc/Fcv = 1.064 Mc = 1.25 T = 83. B = 30.03

Run 12-19 CI IO SO BI Eng 2 =-4 =10 m/m*=.474 0.513

| | | | | | | | | | | | | | |
|----------------|----------------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|--------|--------|-------|
| Pt/Pto 131-144 | 1.000 | 1.000 | 1.000 | .995 | .992 | .999 | .999 | .999 | .998 | .994 | .989 | .985 | .983 |
| Cp 330-344 | .180 | -.535 | -.710 | -.564 | -.386 | .449 | -.094 | -.438 | -.615 | -.567 | -.479 | -.621 | -.447 |
| Pt/Pto 101-130 | | | | | | | | | | | | | |
| .981 | .996 | .997 | .980 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .996 | | | |
| 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| Ptc = 14.963 | Ptc/Pto = .998 | K = .0198 | | | | | | | | | | | |
| Cp 310-320 | .092 | .813 | .538 | .298 | .201 | .016 | -.192 | -.278 | -.276 | -.232 | -.216 | | |
| Cp 321-329 | 1.202 | -.153 | -.267 | -.384 | -.437 | -.480 | -.378 | -.335 | -.340 | | | | |
| Ps 301-309 | 14.101 | 13.747 | 14.090 | 14.169 | 14.175 | 14.101 | 14.113 | 14.128 | 14.130 | | | | |
| Ps 201-206 | 14.057 | 14.097 | 14.126 | 14.097 | 14.008 | 13.953 | | | | | | | |
| Ps 207-212 | 13.795 | 13.817 | 13.833 | 13.826 | 13.803 | 13.765 | | | | | | | |
| Ps 213-224 | 14.524 | 13.527 | 13.292 | 13.424 | 13.561 | 13.851 | 13.869 | 13.907 | 13.940 | 14.228 | 14.232 | 14.197 | |
| Ps 225-236 | 14.904 | 14.319 | 13.844 | 13.678 | 13.801 | 13.828 | 13.820 | 13.830 | 13.851 | 14.741 | 14.215 | 14.332 | |
| Ps 237-245 | 14.988 | 14.690 | 14.153 | 13.887 | 13.862 | 14.016 | 14.010 | 13.914 | 13.895 | | | | |
| Pcw = 14.056 | L = .0116 | Pcb = 13.806 | Ptc/Pcw = 1.064 | Wc = 1.26 | T = 83. | B = 30.03 | | | | | | | |

Run 12-20 C1 IC SO M3 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $\lambda/\pi=.474$ 0.513

| | | | | | | | | | | | |
|----------------|-----------------------|--------------|-----------------------|-----------|---------|-----------|--------|--------|--------|-------------------|----------------------|
| Pt/Pto 131-144 | .997 1.000 | 1.000 | 1.000 .994 | .991 | 1.000 | 1.000 | 1.000 | .998 | .994 | .990 | .984 .984 |
| Cp 330-344 | .999 .998 | .998 | .976 | 1.000 | .999 | 1.000 | 1.000 | .994 | .994 | .990 | .984 |
| Pt/Pto 131-130 | .997 .989 | .989 | .976 | 1.000 | .999 | 1.000 | 1.000 | .994 | .994 | .990 | .984 |
| | 1.000 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| | 1.000 | .998 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Ptc = 14.931 | Ptc/Pto = .996 | K = .043 | | | | | | | | | |
| Cp 310-320 | .997 .739 | .497 | .202 | .294 | .023 | -.145 | -.150 | -.183 | -.142 | -.087 | |
| Cp 321-329 | .997 .724 | .471 | .290 | .170 | .010 | -.002 | -.110 | -.189 | | | |
| Is 301-309 | 15.319 | 13.370 | 13.551 | 13.730 | 13.976 | 14.031 | 14.073 | 14.094 | 14.101 | | |
| Ps 201-209 | 14.030 | 14.079 | 14.099 | 14.075 | 13.990 | 13.930 | | | | | |
| Ps 207-212 | 13.769 | 13.792 | 13.800 | 13.800 | 13.770 | 13.740 | | | | | |
| Ps 213-224 | 14.576 | 13.547 | 13.507 | 13.205 | 13.440 | 13.729 | 13.770 | 13.820 | 13.853 | 14.200 | 14.181 |
| Pp 225-236 | 14.436 | 13.437 | 12.981 | 13.050 | 13.334 | 13.561 | 13.573 | 13.645 | 13.699 | 14.777 | 14.185 |
| Pe 237-245 | 14.990 | 14.711 | 14.183 | 13.707 | 13.869 | 14.010 | 13.991 | 13.890 | 13.871 | | |
| Pcw = 14.035 | L = .0113 | Pcb = 13.781 | Ptc/Pcw = 1.004 | Wc = 1.25 | T = 83. | B = 30.03 | | | | | |

Run 13-2 C1 IO SO B1 Eng 2 $\alpha = -4^\circ$ $\beta = 0^\circ$ $m/m^* = .630$ 0.659

Pt/Pto 131-144

~~998~~ 1.000 1.000 ~~1.000~~ .994 .991 .999 1.000 1.000 .999 .995 .990 .981 .982

Cp 330-344

~~117~~ -.233 -.510 -.433 -.281 .496 -.086 -.443 -.634 -.594 -.513 -.465 -.915 -.381 -.683

Pt/Pto 101-130

.955 .974 .964 .963 1.000 1.000 .992 1.000 .979 .963
1.000 1.000 1.000 .995 .976 1.000 1.000 1.000 1.000
1.000 .992 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.672 Ptc/Pto = .992 K = .0450

Cp 310-320

~~037~~ .990 .791 .588 .462 .220 -.061 -.139 -.147 -.119 -.092

Cp 321-329

~~495~~ .884 .619 .406 .267 .050 -.047 -.106 -.174

Ps 301-309 11.839 11.844 12.054 12.381 12.683 13.081 13.145 13.154 13.159

Ps 201-206 13.015 13.108 13.144 13.101 12.957 12.842

Ps 207-212 12.528 12.575 12.602 12.581 12.531 12.468

Ps 213-224 13.172 11.628 ~~10.925~~ 11.491 11.728 12.430 12.519 12.629 12.718 13.349 13.357 13.306

Ps 225-236 13.453 11.789 10.983 11.160 11.971 12.156 12.229 12.333 12.441 ~~14.562~~ 13.311 13.481

Ps 237-245 14.787 14.238 13.259 12.750 12.691 12.978 12.960 12.774 12.741

Pev = 13.028 L = .0206 Pev = 12.548 Ptc/Pev = 1.126 Wc = 1.61 T = 97. B = 29.64

982

653 - .359

196

Cp 310-320

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 301-309 | 11.972 | 11.992 | 12.216 | 12.565 | 12.887 | 13.222 | 13.270 | 13.283 | 13.280 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Pa 207-212 12.628 12.677 12.705 12.682 12.632 12.563

| | | | | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|--------|
| Pa | 225-236 | 13.723 | 12.028 | 11.168 | 11.303 | 12.117 | 12.283 | 12.351 | 12.450 | 12.556 | 14.736 | 13.454 | 13.640 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|--------|

$P_{ev} = 13.143$ $L = .0217$ $P_{eb} = 12.648$ $P_{tc}/P_{ev} = 1.131$ $W_c = 1.71$ $T = 58.$ $B = 30.02$

Run 13-4 C1 IO S0 E1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $m/m^*=.620$ 0.663

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ .999 .995 1.000 1.000 1.000 1.000 .999 .995 ~~.981~~ .982

Cp 330-344

~~.091~~ -.012 -.238 -.255 -.212 .702 .318 .016 -.200 -.245 -.236 -.320 -.885 -.241 -.631

Pt/Pto 101-130

.955 .974 .965 .962 1.000 1.000 .982 1.000 .990 .970
1.000 1.000 1.000 1.000 .999 .988 1.000 1.000 1.000 1.000
1.000 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.877 Ptc/Pto = .993 K = .0453

Cp 310-320

~~.137~~ .896 1.005 .868 .767 .531 .175 .062 .016 -.004 -.028

Cp 321-329

~~.140~~ .638 .306 .083 -.061 -.282 -.322 -.324 -.338

Ps 301-309 12.182 12.102 12.372 12.758 13.073 13.258 13.294 13.312 13.312

Ps 201-206 13.133 13.257 13.297 13.246 13.096 12.972

Ps 207-212 12.661 12.710 12.736 12.715 12.666 12.599

Ps 213-224 12.169 10.942 ~~13.187~~ 11.265 11.938 12.449 12.607 12.745 12.849 13.507 13.507 13.457

Ps 225-236 13.903 12.282 11.412 11.481 12.168 12.370 12.420 12.507 12.603 ~~14.700~~ 13.480 13.676

Ps 237-245 14.976 14.403 13.391 12.876 12.821 13.121 13.098 12.910 12.878

Pev = 13.167 L = .0219 Pev = 12.681 Ptc/Pev = 1.130 Wc = 1.71 T = 60. B = 30.02

[illegible]

[illegible]

086.

99 -.375 -.667

| | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| .955 | .948 | .963 | .962 | 1.000 | 1.000 | .999 | .966 | .973 | .959 |
| 1.000 | 1.000 | 1.000 | .976 | .980 | .966 | 1.000 | 1.000 | 1.000 | .986 |
| .990 | .982 | 1.000 | 1.000 | 1.000 | .998 | .999 | 1.000 | 1.000 | 1.000 |

| | | | | | | | | |
|--|------|------|------|------|------|------|-------|-------|
| | .921 | .886 | .717 | .594 | .338 | .035 | -.128 | -.282 |
|--|------|------|------|------|------|------|-------|-------|

Pa 201-206 13.029 13.117 13.189 13.129 12.970 12.835

| | | | | | | | | | | | |
|------------|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 213-224 | 14.086 | 12.372 | 11.742 | 11.989 | 12.504 | 12.567 | 12.660 | 12.741 | 13.375 | 13.374 | 13.333 |
| | | 12.755 | | | | | | | | | |

Pa 237-245 14.979 14.375 13.285 12.723 12.652 12.969 12.940 12.736 12.716

$P_{ev} = 13.045$ $L = .0240$ $P_{eb} = 12.523$ $P_{tc}/P_{ev} = 1.133$ $W_c = 1.70$ $T = 65.$ $B = 30.02$

Run 13-8 C1 IO SO H1 Eng 2 $\alpha=0^\circ$ $\beta=-4^\circ$ $m/m^* = .640$ 0.662

Pt/Pto 131-144

~~997~~ 1.000 1.000 ~~1.000~~ .993 .989 .999 1.000 1.000 .998 .994 .989 ~~.979~~ .981

Cp 330-344

~~215~~ -.219 -.526 -.453 -.294 .433 -.191 -.546 -.722 -.658 -.567 -.501 -.949 -.411 -.718

Pt/Pto 101-130

.954 .956 .968 .964 1.000 1.000 .994 .980 .977 .958
1.000 1.000 1.000 .990 .985 .973 1.000 1.000 1.000 .996
.996 .991 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.823 Ptc/Pto = .989 K = .0463

Cp 310-320

~~692~~ .895 .699 .490 .375 .142 -.114 -.180 -.175 -.144 -.101

Cp 321-329

~~1423~~ .969 .803 .636 .504 .260 .075 -.025 -.142

Ps 301-309 11.691 11.542 11.820 12.229 12.596 13.115 13.217 13.224 13.222

Ps 201-206 13.085 13.187 13.242 13.184 13.039 12.906

Ps 207-212 12.584 12.632 12.666 12.635 12.587 12.522

Ps 213-224 13.410 11.733 ~~12.795~~ 11.474 11.736 12.449 12.546 12.667 12.764 13.440 13.441 13.395

Ps 225-236 12.992 11.199 10.460 10.818 11.826 12.074 12.198 12.350 12.497 ~~14.739~~ 13.324 13.525

Ps 237-245 14.976 14.406 13.369 12.830 12.758 13.055 13.025 12.826 12.799

Pev = 13.107 L = .0227 Peb = 12.604 Ptc/Pev = 1.131 Wc = 1.69 T = 66. B = 30.02

813

13 26

136 61

30.02

Run 13-10 C1 IO SO B1 Eng 2 $\alpha=0^\circ$ $\beta=4^\circ$ $m/m^*=-.630$ 0.661

Pt/Pto 131-144

~~-.997~~ 1.000 1.000 ~~1.000~~ .993 .990 .999 1.000 .999 .998 .993 .988 ~~-.980~~ .982

Cp 330-344

~~-.937~~ -.390 -.630 -.505 -.325 .436 -.181 -.547 -.726 -.663 -.568 -.502 -.952 -.423 -.704

Pt/Pto 101-130

.953 .980 .968 .957 1.000 1.000 .996 1.000 .994 .960
1.000 1.000 1.000 1.000 1.000 .975 1.000 1.000 1.000 1.000
1.000 .992 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.872 Ptc/Pto = .993 K = .0481

Cp 310-320

~~-.937~~ .999 .788 .525 .399 .155 -.110 -.187 -.182 -.141 -.107

Cp 321-329

~~-.937~~ .815 .521 .302 .172 -.021 -.093 -.139 -.204

Ps 301-309 12.103 12.107 12.285 12.594 12.883 13.242 13.298 13.308 13.305

Ps 201-206 13.152 13.249 13.294 13.233 13.091 12.967

Ps 207-212 12.651 12.700 12.725 12.704 12.657 12.588

Ps 213-224 13.558 11.968 ~~12.257~~ 11.735 11.984 12.617 12.699 12.800 12.882 13.500 13.510 13.455

Ps 225-236 13.873 12.246 11.402 11.489 12.180 12.375 12.425 12.509 12.604 ~~14.744~~ 13.475 13.674

Ps 237-245 14.976 14.393 13.363 12.845 12.795 13.106 13.090 12.903 12.871

Rev = 13.164 L = .0220 Rev = 12.671 Ptc/Rev = 1.130 We = 1.69 T = 70. B = 30.02

Run 13-11 C1 IO SO B1 Eng 2 $\alpha=0^\circ$ $\beta=10^\circ$ $m/m^* = .610$ 0.660

Pt/Pto 131-144

~~998~~ 1.000 1.000 ~~999~~ .993 .990 .999 .999 .998 .997 .992 .986 ~~998~~ .981

Cp 330-344

~~155~~ -.568 -.753 -.592 -.411 .389 -.205 -.565 -.741 -.679 -.589 -.539 -1.034 -.469 -.753

Pt/Pto 101-130

.956 .983 .982 .954 1.000 1.000 .998 1.000 1.000 .967
1.000 1.000 1.000 1.000 1.000 .982 1.000 1.000 1.000 1.000
1.000 .997 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.894 Ptc/Pto = .994 K = .0463

Cp 310-320

~~083~~ .979 .739 .490 .362 .116 -.160 -.246 -.249 -.206 -.182

Cp 321-329

~~1355~~ .516 .201 .005 -.103 -.239 -.223 -.231 -.248

Ps 301-309 12.214 12.210 12.511 12.871 13.117 13.272 13.316 13.341 13.341

Ps 201-206 13.202 13.283 13.337 13.273 13.126 13.009

Ps 207-212 12.700 12.746 12.772 12.751 12.708 12.639

Ps 213-224 13.595 12.071 ~~12.412~~ 11.869 12.115 12.699 12.771 12.862 12.935 13.531 13.544 13.485

Ps 225-236 14.346 12.925 12.065 11.963 12.327 12.594 12.589 12.638 12.704 ~~14.794~~ 13.508 13.723

Ps 237-245 14.980 14.463 13.457 12.925 12.860 13.155 13.133 12.949 12.917

Pcw = 13.205 L = .0220 Pcb = 12.719 Ptc/Pcw = 1.128 Wc = 1.68 T = 71. B = 30.02

Run 13-12 C1 IO S0 B1 Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ $m/m^* = 620$ 0.662

Pt/Pto 131-144

| | | | | | | | | | | | | | | |
|--|------|-------|------|------|------|------|------|------|------|------|------|------|-----------------|------|
| | .986 | 1.000 | .999 | .999 | .992 | .989 | .999 | .999 | .998 | .995 | .991 | .985 | .978 | .980 |
|--|------|-------|------|------|------|------|------|------|------|------|------|------|-----------------|------|

CP 330-344

| | | | | | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 1.23 | -.578 | -.763 | -.577 | -.374 | .344 | -.286 | -.649 | -.808 | -.721 | -.618 | -.546 | -1.029 | -.462 | -.730 |
|-----------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|--------|-------|-------|

Pt/Pto 101-130

| | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| .959 | .984 | .980 | .953 | 1.000 | 1.000 | .999 | 1.000 | 1.000 |
| 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .979 | 1.000 | 1.000 | 1.000 |
| 1.000 | .995 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

$P_{TC} = 14.891$ $P_{TC}/P_{TO} = .994$ $K = .0481$

CP 310-320

| | | | | | | | | | | |
|------------------|------|------|------|------|------|-------|-------|-------|-------|-------|
| -.003 | .981 | .710 | .442 | .317 | .080 | -.169 | -.239 | -.234 | -.176 | -.140 |
|------------------|------|------|------|------|------|-------|-------|-------|-------|-------|

CP 321-329

| | | | | | | | | |
|--|------|------|------|------|-------|-------|-------|-------|
| | .635 | .328 | .119 | .006 | -.137 | -.151 | -.176 | -.203 |
|--|------|------|------|------|-------|-------|-------|-------|

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ps 301-309 | 12.131 | 12.177 | 12.427 | 12.754 | 13.014 | 13.251 | 13.310 | 13.337 | 13.338 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Pa 201-206 13.196 13.278 13.330 13.266 13.121 13.001

Pa 207-212 12.690 12.737 12.765 12.744 12.699 12.632

| | | | | | | | | | | | | |
|------------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pp 213-224 | 13.758 | 12.194 | 12.105 | 11.898 | 12.140 | 12.697 | 12.761 | 12.848 | 12.919 | 13.524 | 13.538 | 13.479 |
|------------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|--------|
| Pa | 225-236 | 14.247 | 12.778 | 11.922 | 11.858 | 12.277 | 12.539 | 12.548 | 12.604 | 12.676 | 14.734 | 13.501 | 13.713 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|--------|

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 237-245 | 14.981 | 14.479 | 13.475 | 12.934 | 12.860 | 13.152 | 13.127 | 12.940 | 12.909 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

$P_{EW} = 13.199$ $L = .0221$ $P_{EB} = 12.711$ $P_{TC}/P_{EW} = 1.128$ $W_C = 1.68$ $T = 72.$ $B = 30.02$

Run 13-13 C1 IO SO BI Eng 2 a-4° β -4° \square/\square° = .620 0.664 0.660

Pt/Pto 131-144
~~996~~ 1.000 .999 ~~1.000~~ .992 .989 .999 1.000 .999 .996 .992 .987 ~~979~~ .981

Cp 330-344
~~950~~ -.424 -.665 -.513 -.317 .397 -.264 -.631 -.793 -.705 -.597 -.505 -.949 -.423 -.691

Pt/Pto 101-130
 .954 .980 .969 .955 1.000 1.000 .997 1.000 .993 .958
 1.000 1.000 1.000 1.000 .999 .972 1.000 1.000 1.000 1.000
 1.000 .989 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.868 Ptc/Pto = .992 K = .0470

Cp 310-320
~~926~~ .991 .744 .469 .344 .114 -.127 -.193 -.178 -.128 -.082

Cp 321-329
~~1365~~ .898 .625 .391 .257 .055 -.045 -.109 -.187

Ps 301-309 12.151 12.098 12.232 12.511 12.790 13.230 13.295 13.315 13.311

Ps 201-206 13.160 13.254 13.297 13.237 13.096 12.974

Ps 207-212 12.659 12.706 12.732 12.710 12.665 12.597

Ps 213-224 13.719 12.096 ~~12.154~~ 11.773 12.017 12.620 12.694 12.793 12.874 13.501 13.512 13.459

Ps 225-236 13.747 12.091 11.261 11.389 12.161 12.332 12.393 12.484 12.584 ~~14.745~~ 13.475 13.669

Ps 237-245 14.978 14.420 13.399 12.873 12.814 13.116 13.096 12.908 12.876

Pcv = 13.170 L = .0217 Pcb = 12.678 Ptc/Pcv = 1.129 Wc = 1.68 T = 72. B = 30.02

[illegible]

Run 13-16 C1 IO SO B1 Eng 2 $\alpha = -4^\circ$ $\beta = -10^\circ$ $m/m^* = .640$ 0.658

| | | | | | | | | | | | | | | | |
|----------------|------------------|--------|-------------------|--------|-----------|--------|--------|--------|--------|-------------------|--------|-----------------|--------|-------|-------|
| Pt/Pto 131-144 | .999 | .999 | .999 | .994 | .990 | .999 | 1.000 | 1.000 | .999 | .996 | .991 | .979 | .981 | | |
| Cp 330-344 | .325 | -.056 | -.405 | -.403 | -.290 | .421 | -.138 | -.477 | -.656 | -.621 | -.547 | -.534 | -1.041 | -.423 | -.805 |
| Pt/Pto 101-130 | .953 | .934 | .965 | .969 | 1.000 | 1.000 | .989 | .945 | .975 | .961 | | | | | |
| | 1.000 | 1.000 | 1.000 | .954 | .981 | .980 | 1.000 | 1.000 | 1.000 | .964 | | | | | |
| | .987 | .996 | 1.000 | 1.000 | 1.000 | .988 | .997 | 1.000 | 1.000 | 1.000 | | | | | |
| Ptc = 14.752 | Ptc/Pto = | .985 | K = | .0670 | | | | | | | | | | | |
| Cp 310-320 | .149 | .806 | .701 | .504 | .387 | .158 | -.111 | -.182 | -.188 | -.175 | -.149 | | | | |
| Cp 321-329 | .1358 | .968 | .950 | .799 | .668 | .420 | .196 | .070 | -.056 | | | | | | |
| Ps 301-309 | 11.004 | 14.729 | 11.277 | 11.939 | 12.507 | 12.960 | 13.054 | 13.077 | 13.098 | | | | | | |
| Ps 201-206 | 12.970 | 13.060 | 13.146 | 13.089 | 12.924 | 12.787 | | | | | | | | | |
| Ps 207-212 | 12.444 | 12.501 | 12.542 | 12.486 | 12.442 | 12.381 | | | | | | | | | |
| Ps 213-224 | 12.979 | 11.283 | 11.815 | 11.118 | 11.423 | 12.232 | 12.353 | 12.496 | 12.606 | 13.326 | 13.314 | 13.281 | | | |
| Ps 225-236 | 12.309 | 10.500 | 9.911 | 10.429 | 11.525 | 11.870 | 12.031 | 12.202 | 12.344 | 14.722 | 13.153 | 13.382 | | | |
| Ps 237-245 | 14.976 | 14.375 | 13.284 | 12.705 | 12.621 | 12.927 | 12.890 | 12.674 | 12.659 | | | | | | |
| -- = 12.996 | L = | .0244 | Peb = | 12.466 | Ptc/Rev = | 1.135 | Wc = | 1.69 | T = | 75. | B = | 30.02 | | | |

Run 13-17 C1 IO SO H1 Eng 2 $\alpha = 4^\circ$ $\beta = 4^\circ$ $m/m^* = .625$ 0.660

Pt/Pto 131-144

~~998~~ 1.000 1.000 ~~1.000~~ .994 .991 .999 1.000 1.000 .999 .995 .990 ~~.980~~ .982

Cp 330-344

~~238~~ -.147 -.455 -.405 -.267 .477 -.102 -.452 -.641 -.603 -.525 -.486 -.958 -.390 -.714

Pt/Pto 101-130

.956 .959 .968 .964 1.000 1.000 .992 .988 .976 .960
1.000 1.000 1.000 .996 .986 .975 1.000 1.000 1.000 .999
.997 .992 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.839 Ptc/Pto = .990 K = .0450

Cp 310-320

~~074~~ .950 .797 .574 .446 .213 -.076 -.141 -.145 -.124 -.092

Cp 321-329

~~1364~~ .989 .797 .592 .451 .213 .056 -.031 -.125

Ps 301-309 11.751 11.626 11.886 12.268 12.628 13.138 13.233 13.245 13.244

Ps 201-206 13.100 13.205 13.249 13.196 13.048 12.922

Ps 207-212 12.596 12.647 12.676 12.647 12.601 12.536

Ps 213-224 13.192 11.556 ~~11.777~~ 11.402 11.672 12.429 12.537 12.666 12.766 13.452 13.454 13.407

Ps 225-236 13.107 11.302 10.526 10.853 11.876 12.089 12.206 12.349 12.490 ~~14.736~~ 13.346 13.545

Ps 237-245 14.979 14.425 13.401 12.857 12.784 13.069 13.044 12.844 12.815

Rev = 13.120 L = .0220 Peb = 12.617 Ptc/Pcw = 1.131 Wc = 1.68 T = 75. U = 30.02

Run 13-18 C1 IO S0 B1 Eng 2 $\alpha=4^\circ$ $\beta=4^\circ$ $m/m^*=610$ 0.661,, 0.660

Pt/Pto 131-144

~~998~~ 1.000 1.000 ~~1.000~~ .994 .990 .999 1.000 1.000 .999 .994 .989 ~~.988~~ .982

Cp 330-344

~~998~~ -.349 -.590 -.488 -.330 .480 -.092 -.452 -.645 -.603 -.527 -.482 -.948 -.409 -.700

Pt/Pto 101-130

.953 .979 .967 .958 1.000 1.000 .994 1.000 .996 .963
1.000 1.000 1.000 1.000 .978 1.000 1.000 1.000 1.000
1.000 .994 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.875 Ptc/Pto = .993 K = .0475

Cp 310-320

~~961~~ 1.005 .835 .586 .459 .211 -.079 -.165 -.174 -.143 -.120

Cp 321-329

~~1.323~~ .718 .457 .209 .078 -.111 -.154 -.184 -.225

Ps 301-309 12.131 12.137 12.358 12.692 12.980 13.267 13.309 13.328 13.327

Ps 201-206 13.184 13.279 13.323 13.264 13.121 13.003

Ps 207-212 12.690 12.739 12.766 12.744 12.696 12.632

Ps 213-224 13.379 11.839 ~~11.747~~ 11.708 11.959 12.624 12.714 12.819 12.904 13.525 13.536 13.480

Ps 225-236 13.992 12.403 11.553 11.599 12.201 12.434 12.474 12.553 12.641 ~~14.740~~ 13.500 13.700

Ps 237-245 14.979 14.424 13.419 12.904 12.847 13.143 13.126 12.940 12.907

Pcw = 13.196 L = .0215 Pcb = 12.711 Ptc/Pcw = 1.127 Wc = 1.67 T = 76. B = 30.02

| | | | | | | | | | | | | | | |
|--------|----------------------------|-----------|--------|-------------------|--------|-----------|--------|--------|--------|--------|-------------------|--------------|--------|-------|
| Pt/Pto | 131-144 999 | 1.000 | ±.000 | .995 | .991 | .999 | .999 | .998 | .993 | .988 | -779- | .981 | | |
| Cp | 330-344 194 | -.555 | -.740 | -.604 | -.444 | .439 | -.119 | -.474 | -.664 | -.627 | -.552 | -.523 -1.024 | -.469 | -.761 |
| Pt/Pto | 101-130 | .984 | .955 | 1.000 | 1.000 | .997 | 1.000 | 1.000 | .968 | | | | | |
| | .954 .984 | | | | | | | | | | | | | |
| | 1.000 1.000 | 1.000 | 1.000 | 1.000 | .985 | 1.000 | 1.000 | 1.000 | 1.000 | | | | | |
| | 1.000 .998 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | | | |
| Ptc = | 14.893 | Ptc/Pto = | .994 | K = | .0463 | | | | | | | | | |
| Cp | 310-320 131 | .936 | .788 | .541 | .407 | .156 | -.144 | -.244 | -.259 | -.229 | -.218 | | | |
| Cp | 321-329 1343 | .376 | .074 | -.116 | -.225 | -.354 | -.316 | -.298 | -.320 | | | | | |
| Pa | 301-309 | 12.541 | 12.255 | 12.626 | 13.014 | 13.233 | 13.292 | 13.331 | 13.352 | 13.355 | | | | |
| Pa | 201-206 | 13.215 | 13.297 | 13.350 | 13.287 | 13.141 | 13.026 | | | | | | | |
| Pa | 207-212 | 12.717 | 12.763 | 12.792 | 12.770 | 12.724 | 12.658 | | | | | | | |
| Pa | 213-224 | 13.435 | 11.967 | 11.760 | 11.859 | 12.109 | 12.717 | 12.796 | 12.887 | 12.961 | 13.544 | 13.556 | 13.497 | |
| Pa | 225-236 | 14.438 | 13.077 | 12.220 | 12.079 | 12.401 | 12.660 | 12.647 | 12.683 | 12.748 | 14.727 | 13.521 | 13.737 | |
| Pa | 237-245 | 14.980 | 14.445 | 13.440 | 12.922 | 12.865 | 13.163 | 13.146 | 12.964 | 12.932 | | | | |
| Pev = | 13.219 | L = | .0217 | Feb = | 12.737 | Ptc/Fev = | 1.127 | We = | 1.66 | T = | 77. | B = | 30.02 | |

Run 13-20 Cl IO SO Bl Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $\frac{m}{M^*} = 610$ 0.662, 0.659

Pt/Pto 131-144

| | | | | | | | | | | | |
|------|------------------|------|------|------|-------|------|------|------|------|-----------------|------|
| .999 | 1.000 | .993 | .990 | .999 | 1.000 | .999 | .998 | .993 | .989 | .986 | .982 |
|------|------------------|------|------|------|-------|------|------|------|------|-----------------|------|

CP 330-344

| | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 136 | -.292 | -.567 | -.467 | -.295 | .447 | -.176 | -.539 | -.717 | -.654 | -.559 | -.488 | -.920 | -.402 | -.685 |
|-----|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

Pt/Pto 101-130

[illegible]

$Ptc = 14.852$ $Ptc/Pto = .991$ $K = .0465$

Ср 310-320

| | | | | | | | | | |
|------|------|------|------|------|-------|-------|-------|-------|-------|
| .956 | .773 | .519 | .394 | .158 | -.100 | -.170 | -.165 | -.128 | -.093 |
|------|------|------|------|------|-------|-------|-------|-------|-------|

CP 321-329

| | | | | | | | |
|------|------|------|------|------|-------|-------|-------|
| .921 | .677 | .477 | .339 | .119 | -.009 | -.084 | -.169 |
|------|------|------|------|------|-------|-------|-------|

Pa 301-309 12.009 11.942 12.154 12.468 12.774 13.224 13.299 13.315 13.310

Pa 201-206 13.170 13.270 13.306 13.257 13.114 12.993

Pa 207-212 12.679 12.727 12.753 12.729 12.684 12.620

| | | | | | | | | | | | | | |
|----|---------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Fe | 213-224 | 13.527 | 11.911 | 11.754 | 11.668 | 11.916 | 12.578 | 12.670 | 12.779 | 12.869 | 13.512 | 13.520 | 13.469 |
|----|---------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa | 225-236 | 13.499 | 11.785 | 10.985 | 11.201 | 12.107 | 12.265 | 12.350 | 12.464 | 12.578 | 14.745 | 13.465 | 13.636 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 237-245 | 14.979 | 14.431 | 13.433 | 12.912 | 12.849 | 13.137 | 13.114 | 12.925 | 12.894 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

$P_{ev} = 13.185$ $L = .0210$ $P_{cb} = 12.699$ $P_{tc}/P_{ev} = 1.126$ $W_c = 1.66$ $T = 77.$ $B = 30.02$

| | | | | | | | | | | | | |
|------------------------------------|----------------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|-----------------|--------|
| Pt/Pto 131-144 997-1.000 | .999 | -1.000 | .993 | .989 | .999 | 1.000 | .999 | .998 | .993 | .988 | .978 | .980 |
| Gp 330-344 305 -.302 | -.579 | -.488 | -.331 | .442 | -.188 | -.555 | -.737 | -.680 | -.592 | -.576 | -1.165 | -.473 |
| Pt/Pto 101-130 .942 .957 | .957 | .953 | .999 | 1.000 | .991 | .995 | .969 | .952 | | | | |
| 1.000 1.000 | 1.000 | .999 | .986 | .964 | 1.000 | 1.000 | 1.000 | 1.000 | | | | |
| .999 .984 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | | |
| Ptc = 14.618 | Ptc/Pto = .988 | K = .0592 | | | | | | | | | | |
| Gp 310-320 331 .973 | .855 | .606 | .474 | .218 | -.076 | -.156 | -.157 | -.124 | -.089 | | | |
| Gp 321-329 362 .982 | .780 | .552 | .409 | .167 | .018 | -.065 | -.162 | | | | | |
| Pt 301-309 | 10.980 | 10.830 | 11.079 | 11.485 | 11.878 | 12.547 | 12.647 | 12.658 | 12.648 | | | |
| Pt 201-206 | 12.451 | 12.582 | 12.634 | 12.573 | 12.401 | 12.232 | | | | | | |
| Pt 207-212 | 11.814 | 11.877 | 11.919 | 11.886 | 11.813 | 11.731 | | | | | | |
| Pt 213-224 | 12.683 | 10.767 | 10.397 | 10.490 | 10.803 | 11.701 | 11.818 | 11.965 | 12.084 | 12.904 | 12.905 | 12.844 |
| Pt 225-236 | 12.778 | 10.696 | 9.635 | 9.897 | 11.078 | 11.305 | 11.419 | 11.574 | 11.729 | 11.553 | 12.808 | 13.043 |
| Pt 237-245 | 14.779 | 14.075 | 12.791 | 12.115 | 12.031 | 12.422 | 12.396 | 12.146 | 12.115 | | | |
| Ptc = 12.479 | L = .0275 | Ptc = 11.840 | Ptc/Ptc = 1.171 | Wc = 1.84 | T = 70. | B = 29.63 | | | | | | |

Run 14-2 C1 IO SO B1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ $m/m^*=.677$ 0.732

Pt/Pto 131-144

~~999~~ 1.000 1.000 1.000 .994 .990 .993 1.000 1.000 .999 .995 .990 ~~979~~ .981

Cp 330-344

~~100~~ -.246 -.529 -.455 -.317 .487 -.097 -.462 -.659 -.625 -.553 -.558 -1.162 -.455 -.864

Pt/Pto 101-130

.943 .962 .958 .954 1.000 1.000 .989 .998 .970 .954
1.000 1.000 1.000 .989 .967 1.000 1.000 1.000
.999 .986 1.000 1.000 1.000 1.000 .999 1.000 1.000

Ptc = 14.624 Ptc/Pto = .989 K = .0574

Cp 310-320

~~766~~ .964 .885 .671 .539 .275 -.044 -.127 -.139 -.117 -.094

Cp 321-329

~~164~~ .938 .708 .484 .337 .097 -.023 -.092 -.171

Pt 301-309 11.034 10.926 11.213 11.629 12.018 12.590 12.678 12.688 12.679

Pt 201-206 12.491 12.621 12.669 12.611 12.440 12.276

Pt 207-212 11.866 11.928 11.969 11.934 11.865 11.783

Pt 213-224 12.497 10.659 ~~10.412~~ 10.502 10.820 11.737 11.861 12.012 12.128 12.939 12.945 12.877

Pt 225-236 12.934 10.891 9.827 10.053 11.182 11.387 11.491 11.637 11.784 ~~14.551~~ 12.861 13.085

Pt 237-245 14.781 14.081 12.818 12.159 12.079 12.464 12.439 12.196 12.162

Ptc = 12.518 L = .0269 Ptc = 11.891 Ptc/Ptc = 1.168 Wc = 1.82 T = 73. B = 29.63

| Variable | Mean | SD | Min | Max | Skewness | Kurtosis | Normality |
|-------------------|-------|-------|-------|-------|----------|----------|-----------|
| Age | 35.2 | 12.5 | 18 | 65 | 0.15 | 3.2 | 0.981 |
| Gender | 1.2 | 0.4 | 1 | 2 | 0.05 | 2.8 | 0.997 |
| Education | 12.5 | 2.1 | 9 | 16 | 0.25 | 3.5 | 0.991 |
| Income | 45000 | 15000 | 20000 | 80000 | 0.35 | 3.8 | 0.997 |
| Marital Status | 1.8 | 0.4 | 1 | 2 | 0.05 | 2.8 | 0.991 |
| Occupation | 2.5 | 0.8 | 1 | 4 | 0.15 | 3.2 | 0.997 |
| Health Status | 1.5 | 0.5 | 1 | 2 | 0.05 | 2.8 | 0.991 |
| Stress Level | 3.2 | 1.2 | 1 | 5 | 0.25 | 3.5 | 0.997 |
| Life Satisfaction | 4.5 | 1.5 | 1 | 7 | 0.15 | 3.2 | 0.981 |

| | | | | | | | | | | | | | | | |
|--|------|--------|--------|--------|--------|------|------|--------|--------|--------|--------|--------|--------|--------|--------|
| | -087 | --.160 | --.432 | --.399 | --.296 | .563 | .046 | --.303 | --.514 | --.517 | --.470 | --.520 | -1.163 | --.421 | --.867 |
|--|------|--------|--------|--------|--------|------|------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | |
|------|------|------|------|------|-------|------|------|------|
| .944 | .964 | .956 | .954 | .999 | 1.000 | .984 | .999 | .970 |
| .999 | .999 | .999 | .999 | .990 | .971 | .999 | .999 | .999 |
| .998 | .990 | .999 | .999 | .999 | .999 | .999 | .999 | .999 |

| | | | | | | | | | | |
|----------------|------|------|------|------|------|------|-------|-------|-------|-------|
| 132 | .900 | .914 | .766 | .642 | .380 | .028 | -.068 | -.095 | -.091 | -.085 |
|----------------|------|------|------|------|------|------|-------|-------|-------|-------|

| | | | | | | | | |
|------------------|------|------|------|------|-------|-------|-------|-------|
| -.146 | .830 | .565 | .370 | .219 | -.017 | -.109 | -.157 | -.198 |
|------------------|------|------|------|------|-------|-------|-------|-------|

Pa 201-206 12.478 12.611 12.655 12.599 12.425 12.262

| | | | | | | | | | | | | |
|----|---------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pg | 213-224 | 12.052 | 10.317 | -10.397 | 10.710 | 11.678 | 11.821 | 11.981 | 12.106 | 12.930 | 12.935 | 12.865 |
|----|---------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 237-245 | 14.780 | 14.080 | 12.813 | 12.149 | 12.069 | 12.453 | 12.430 | 12.184 | 12.148 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

$P_{EW} = 12.505$ $L = .0269$ $P_{EB} = 11.872$ $P_{EC}/P_{EW} = 1.169$ $W_C = 1.82$ $T = 75.$ $B = 29.63$

Run 14-4 C1 IO S0 B1 Eng 2 $\alpha = 20^\circ$ $\beta = 0^\circ$ $\frac{m}{m^*} = .677$ 0.733

Pt/Pto 131-144

[illegible]

CP 330-344

| | | | | | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|------|------|------|-------|-------|-------|-------|--------|-------|-------|
| 0.44 | -.021 | -.249 | -.270 | -.230 | .700 | .314 | .007 | -.212 | -.264 | -.260 | -.391 | -1.098 | -.301 | -.789 |
|-----------------|-------|-------|-------|-------|------|------|------|-------|-------|-------|-------|--------|-------|-------|

Pt/Pto 101-130

| | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| .947 | .964 | .958 | .955 | 1.000 | 1.000 | .974 | 1.000 | .974 |
| 1.000 | 1.000 | 1.000 | 1.000 | .994 | .979 | 1.000 | 1.000 | 1.000 |
| 1.000 | .996 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

$P_{TC} = 14.639$ $P_{TC}/P_{TO} = .990$ $K = .0530$

CP 310-320

| | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|-------|
| .756 | .990 | .907 | .808 | .569 | .190 | .075 | .020 | .000 | -.034 |
|------|------|------|------|------|------|------|------|------|-------|

CP 321-329

| | | | | | | | |
|------|------|------|-------|-------|-------|-------|-------|
| .685 | .376 | .148 | -.006 | -.241 | -.302 | -.313 | -.327 |
|------|------|------|-------|-------|-------|-------|-------|

| | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pr | 301-309 | 11.101 | 11.081 | 11.389 | 11.870 | 12.313 | 12.655 | 12.714 | 12.724 | 12.724 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Pa 201-206 12.497 12.662 12.706 12.650 12.477 12.320

| | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|
| Pa | 207-212 | 11.914 | 11.980 | 12.014 | 11.982 | 11.915 | 11.834 |
|----|---------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | | |
|----|---------|--------|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pz | 213-224 | 11.238 | 9.813 | -10.386- | 10.175 | 10.980 | 11.658 | 11.848 | 12.023 | 12.153 | 12.971 | 12.971 | 12.914 |
|----|---------|--------|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa | 225-236 | 13.295 | 11.340 | 10.241 | 10.344 | 11.263 | 11.518 | 11.592 | 11.717 | 11.848 | 11.588 | 12.940 | 13.155 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa | 237-245 | 14.782 | 14.104 | 12.867 | 12.216 | 12.137 | 12.508 | 12.483 | 12.246 | 12.209 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Rev = 12.552 L = .0263 Feb = 11.940 Ptc/Rev = 1.166 Wc = 1.81 T = 78. B = 29.63

Run 14-5 C1 IO SO B1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ $m/m^*=.677$ 0.734

Pt/Pto 131-144

~~.995~~ .999 .999 -1.000 .991 .988 .999 .999 .998 .996 .991 .987 ~~.977~~ .980

Cp 330-344

~~.998~~ -.352 -.630 -.512 -.339 .398 -.270 -.638 -.801 -.721 -.622 -.574 -1.147 -.474 -.855

Pt/Pto 101-130

.942 .954 .958 .951 1.000 1.000 .993 .991 .968 .950
1.000 .999 1.000 .998 .983 .963 .999 1.000 1.000 .999
.998 .981 1.000 1.000 1.000 1.000 .999 1.000 1.000 1.000

Ptc = 14.604 Ptc/Pto = .987 K = .0592

Cp 310-320

~~.066~~ .947 .767 .539 .408 .158 -.107 -.174 -.169 -.124 -.082

Cp 321-329

~~.067~~ .987 .816 .611 .474 .227 .046 -.054 -.164

Ps 301-309 10.980 10.819 11.027 11.410 11.802 12.545 12.649 12.654 12.653

Ps 201-206 12.467 12.594 12.648 12.585 12.412 12.248

Ps 207-212 11.829 11.892 11.935 1.897 1.829 11.750

Ps 213-224 12.922 10.973 10.362 ~~10.589~~ 10.887 11.741 11.843 11.985 12.100 12.909 12.915 12.852

Ps 225-236 12.644 10.574 9.551 9.860 11.073 11.307 11.428 11.588 11.752 ~~11.554~~ 12.797 13.036

Ps 237-245 14.784 14.085 12.808 12.132 12.047 12.432 12.406 12.158 12.127

Pev = 12.492 L = .0274 Pev = 11.855 Ptc/Pev = 1.169 We = 1.81 T = 79. B = 29.63

五

Pt/Pto 131-144

[illegible]

CP 330-314

| | | | | | | | | | | | | | |
|------------------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| -.000 | -.422 | -.687 | -.540 | .343 | -.371 | -.733 | -.870 | -.756 | -.634 | -.566 | -1.146 | -.474 | -.858 |
|------------------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|--------|-------|-------|

Pt/Pto 101-130

| | 1991 | 1997 | 1998 | 1996 | 1995 | 1997 | 1998 |
|------|-------|-------|-------|-------|-------|-------|-------|
| 1991 | .941 | .947 | .958 | .946 | 1.000 | .995 | .968 |
| 1997 | 1.000 | 1.000 | 1.000 | .988 | .978 | 1.000 | 1.000 |
| 1998 | .993 | .981 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 1996 | | | | 1.000 | 1.000 | 1.000 | 1.000 |
| 1995 | | | | | 1.000 | 1.000 | 1.000 |

$P_{TC} = 14.580$ $P_{TC}/P_{T0} = .986$ $K = .0600$

CP 310-320

| | | | | | | | | | | |
|-----------------|------|------|------|------|------|-------|-------|-------|-------|-------|
| -162 | .931 | .702 | .464 | .338 | .101 | -.127 | -.183 | -.167 | -.105 | -.062 |
|-----------------|------|------|------|------|------|-------|-------|-------|-------|-------|

CP 321-329

| | | | | | | | | |
|------------------|------|------|------|------|------|------|-------|-------|
| -.006 | .971 | .896 | .692 | .558 | .304 | .068 | -.063 | -.195 |
|------------------|------|------|------|------|------|------|-------|-------|

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 301-309 | 10.824 | 10.631 | 10.783 | 11.208 | 11.639 | 12.475 | 12.588 | 12.594 | 12.590 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Pa 201-206 12.408 12.529 12.600 12.529 12.353 12.185

Pa 207-212 11.752 11.817 11.865 11.820 11.755 11.672

| | | | | | | | | | | | |
|------------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 213-224 | 13.128 | 11.120 | 10.490 | 10.885 | 11.692 | 11.782 | 11.919 | 12.031 | 12.852 | 12.854 | 12.797 |
|------------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | |
|------------|--------|-------------|-------|--------|--------|--------|--------|--------|-------------------|--------|--------|
| Pb 225-236 | 12.345 | 10.272 n.g. | 9.698 | 10.884 | 11.210 | 11.348 | 11.525 | 11.700 | 11.543 | 12.706 | 12.960 |
|------------|--------|-------------|-------|--------|--------|--------|--------|--------|-------------------|--------|--------|

| | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa | 237-245 | 14.783 | 14.077 | 12.768 | 12.066 | 11.970 | 12.365 | 12.338 | 12.080 | 12.054 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

$P_{ew} = 12.434$ $L = .0285$ $P_{eb} = 11.780$ $P_{tc}/P_{ev} = 1.173$ $W_c = 1.82$ $T = 82.$ $B = 29.63$

Run 14-7 C1 IO SO B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ m/m* = .677 0.738

Pt/Pto 131-144
~~.998~~ .997 .995 ~~-.999~~ .989 .986 .999 .998 .995 .992 .989 .985 ~~-.975~~ .979

Cp 330-344
~~-.025~~ -.511 -.734 -.552 -.378 .273 -.481 -.814 -.900 -.741 -.594 -.512 -1.133 -.440 -.854

Pt/Pto 101-130
 .940 .928 .955 .954 1.000 1.000 .996 .950 .968 .951
 1.000 1.000 1.000 .962 .974 .957 1.000 1.000 1.000 .974
 .985 .973 1.000 1.000 1.000 .995 .998 .999 1.000 1.000

Ptc = 14.523 Ptc/Pto = .982 K = .0732

Cp 310-320
~~-.159~~ .872 .612 .376 .260 .054 -.111 -.146 -.114 -.067 -.052

Cp 321-329
~~-.084~~ .885 .894 .759 .639 .375 .054 -.113 -.275

Ps 301-309 14.467 14.254 14.454 10.979 11.488 12.346 12.450 12.452 12.454

Ps 201-206 12.277 12.385 12.494 12.420 12.222 12.046

Ps 207-212 11.587 11.650 11.719 11.662 11.588 11.504

Ps 213-224 13.352 11.286 ~~10.519~~ 10.546 10.850 11.588 11.666 11.792 11.904 12.729 12.725 12.678

Ps 225-236 11.780 9.764 n.g. 9.484 10.638 11.050 11.21 11.395 11.572 ~~14.531~~ 12.547 12.817

Ps 237-245 14.783 14.034 12.651 11.900 11.796 12.215 12.184 11.913 11.896

Pew = 12.307 L = .0309 Peb = 11.618 Ptc/Pew = 1.180 Wc = 1.83 T = 83. B = 29.63

Run 14-8 C1 IO SO B1 Eng 2 $\alpha=0^\circ$ $\beta=-4^\circ$ m/m* = ~~.647~~ 0.738, 0.729

Pt/Pto 131-144

~~.998~~ 1.000 1.000 1.000 .993 .989 .999 1.000 1.000 .998 .994 .989 ~~.977~~ .980

Cp 330-344

~~.168~~ -.224 -.536 -.474 -.335 .431 -.197 -.562 -.742 -.687 -.598 -.590 -1.209 -.482 -.919

Pt/Pto 101-130

.941 .937 .963 .954 1.000 1.000 .990 .963 .973 .945
1.000 1.000 1.000 .976 .979 .965 1.000 1.000 1.000 .987
.990 .989 1.000 1.000 1.000 .999 .999 1.000 1.000 1.000

Ptc = 14.565 Ptc/Pto = .985 K = .0639

Cp 310-320

~~.088~~ .888 .782 .580 .456 .203 -.087 -.160 -.163 -.134 -.098

Cp 321-329

~~.018~~ .981 .879 .706 .565 .309 .105 -.005 -.128

Ps 301-309 14.491 14.265 10.592 11.177 11.718 12.375 12.504 12.498 12.505

Ps 201-206 12.323 12.443 12.533 12.456 12.275 12.099

Ps 207-212 11.651 11.717 11.776 1.718 11.650 11.567

Ps 213-224 12.541 10.556 ~~10.515~~ 10.246 10.562 11.536 11.655 11.812 11.938 12.786 12.780 12.724

Ps 225-236 12.240 10.102 n.g. 9.561 10.709 11.097 11.250 11.441 11.627 ~~14.547~~ 12.625 12.880

Ps 237-245 14.778 14.017 12.662 11.952 11.864 12.278 12.254 11.988 11.964

Pcw = 12.355 L = .0298 Feb = 11.680 Ptc/Pcw = 1.179 Wc = 1.83 T = 84. B = 29.63

Run 14-9 C1 IO S0 B1 Eng 2 $\alpha=0^\circ$ $\beta=-10^\circ$ m/m²-.677 0.728

Pt/Pto 131-144
~~-.998~~ .999 .999 ~~-.999~~ .993 .989 .999 1.000 1.000 .999 .994 .989 .976 .979

Cp 330-344
~~-.216~~ -.156 -.508 -.499 -.388 .367 -.235 -.581 -.757 -.703 -.618 -.632 -1.285 -.525 -1.017

Pt/Pto 101-130
 .938 .907 .948 .966 1.000 1.000 .986 .916 .961 .955
 1.000 1.000 1.000 .925 .971 .972 1.000 1.000 1.000 .942
 .978 .994 1.000 1.000 .999 .976 .991 1.000 1.000 1.000

Ptc = 14.455 Ptc/Pto = .977 K = .0957

Cp 310-320
~~-.716~~ .738 .672 .477 .361 .124 -.152 -.222 -.230 -.202 -.180

Cp 321-329
~~-.071~~ .906 .981 .854 .738 .477 .211 .064 -.083

Pa 301-309 13.989 13.574 14.110 10.840 11.487 12.220 12.308 12.325 12.367

Pa 201-206 12.215 12.334 12.437 12.386 12.170 11.990

Pa 207-212 11.529 11.625 11.680 11.584 11.517 11.441

Pa 213-224 12.368 10.341 -10.459 -10.601 10.341 11.371 11.490 11.661 11.792 12.655 12.635 12.605

Pa 225-236 11.435 n.g. n.g. n.g. 10.472 10.940 11.118 11.275 11.417 -14.533- 12.427 12.716

Pa 237-245 14.777 13.984 12.577 11.822 11.713 12.137 12.102 11.823 11.821

Pev = 12.255 L = .0309 Peb = 11.563 Ptc/Pev = 1.179 Wc = 1.82 T = 86. B = 29.63

Run 14-10 C1 IO S0 B1 Eng 2 $\alpha=0^\circ$ $\beta=4^\circ$ m/m* = .677 0.735

Pt/Pto 131-144

~~997~~ 1.000 1.000 1.000 .993 .989 .999 1.000 .999 .998 .987 .987 ~~977~~ .980

Cp 330-344

~~922~~ .393 -.641 -.522 -.353 .439 -.189 -.559 -.744 -.687 -.593 -1.201 -.489 -.887

Pt/Pto 101-130

.940 .971 .956 .946 1.000 1.000 .992 1.000 .983 .949
1.000 1.000 1.000 1.000 .998 .964 1.000 1.000 1.000 1.000
1.000 .986 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.635 Ptc/Pto = .990 K = .0610

Cp 310-320

~~944~~ .991 .876 .621 .486 .221 -.084 -.166 -.172 -.132 -.103

Cp 321-329

~~137~~ .907 .630 .396 .253 .033 -.061 -.118 -.189

Ps 301-309 11.135 11.068 11.260 11.623 11.997 12.567 12.660 12.679 12.674

Ps 201-206 12.477 12.598 12.647 12.587 12.411 12.254

Ps 207-212 11.831 11.895 11.932 11.899 11.832 11.748

Ps 213-224 12.713 10.821 ~~10.479~~ 10.869 11.748 11.854 11.991 12.104 12.923 12.934 12.864

Ps 225-236 13.193 11.177 10.070 10.190 11.183 11.421 11.500 11.623 11.754 ~~14.552~~ 12.892 13.124

Ps 237-245 14.785 14.107 12.835 12.151 12.063 12.446 12.423 12.177 12.140

Pcv = 12.496 L = .0268 Pcb = 11.856 Ptc/Pcv = 1.171 Wc = 1.81 T = 87. B = 29.63

| | | | | | | | | | |
|------------------|------------------|------|------|------|------|------|------|-----------------|------|
| -.999 | -.999 | .993 | .989 | .998 | .996 | .991 | .985 | .976 | .979 |
|------------------|------------------|------|------|------|------|------|------|-----------------|------|

| | | | | | | | | | | | | |
|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| -.765 | -.611 | -.436 | .387 | -.211 | -.576 | -.756 | -.702 | -.620 | -.622 | -1.271 | -.531 | -.920 |
|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|--------|-------|-------|

| Model | Log-likelihood | AIC | BIC | Bayesian |
|----------|----------------|-------|-------|----------|
| Model 1 | -971 | .942 | .999 | 1.000 |
| Model 2 | -.000 | 1.000 | 1.000 | .999 |
| Model 3 | 1.000 | 1.000 | .972 | 1.000 |
| Model 4 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 5 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 6 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 7 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 8 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 9 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 10 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 11 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 12 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 13 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 14 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 15 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 16 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 17 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 18 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 19 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 20 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 21 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 22 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 23 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 24 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 25 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 26 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 27 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 28 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 29 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 30 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 31 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 32 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 33 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 34 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 35 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 36 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 37 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 38 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 39 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 40 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 41 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 42 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 43 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 44 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 45 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 46 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 47 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 48 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 49 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 50 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 51 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 52 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 53 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 54 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 55 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 56 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 57 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 58 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 59 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 60 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 61 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 62 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 63 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 64 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 65 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 66 | 1.000 | 1.000 | 1.000 | 1.000 |
| Model 67 | 1.000 | 1.0 | | |

$$P_{TC}/P_{TO} = .991 \quad K = .0607$$

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|------|------|------|------|-------|-------|-------|-------|-------|
| .801 | .587 | .447 | .177 | -.137 | -.229 | -.244 | -.203 | -.182 |
|------|------|------|------|-------|-------|-------|-------|-------|

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|------|------|-------|-------|-------|-------|-------|
| .321 | .110 | -.017 | -.186 | -.194 | -.211 | -.243 |
|------|------|-------|-------|-------|-------|-------|

59 11.257 11.535 11.967 12.327 12.636 12.714 12.743 12.747

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|----|--------|--------|--------|--------|--------|
| 61 | 12.667 | 12.733 | 12.656 | 12.484 | 12.334 |
|----|--------|--------|--------|--------|--------|

| | 926 | 11.988 | 12.024 | 11.991 | 11.930 | 11.847 |
|-----|--------|--------|--------|--------|--------|--------|
| 1 | 11.988 | 12.024 | 11.991 | 11.930 | 11.847 | |
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|----|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 77 | 10.382 | 10.724 | 11.081 | 11.875 | 11.973 | 12.094 | 12.197 | 12.984 | 13.000 | 12.926 |
|----|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|

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|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|--------|
| 777 | 11.978 | 10.881 | 10.791 | 11.362 | 11.701 | 11.719 | 11.796 | 11.896 | 11.542 | 12.961 | 13.218 |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|--------|

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|----|--------|--------|--------|--------|--------|--------|--------|--------|
| 36 | 14.194 | 12.965 | 12.277 | 12.171 | 12.534 | 12.504 | 12.265 | 12.225 |
|----|--------|--------|--------|--------|--------|--------|--------|--------|

L = .0272 Feb = 11.951 Ptc/Fcw = 1.166 Wc = 1.79 T = 88. B = 29.63

Run 14-12 C1 10 50 M1 Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ $m/m^* = .677$ 0.730

Pt/Pto 131-144
~~997~~ 1.000 .999 ~~999~~ .992 .988 .998 .998 .998 .995 .990 .984 ~~996~~ .979

Cp 330-344
~~229~~ -.584 -.771 -.591 -.397 .343 -.292 -.657 -.823 -.744 -.646 -.621 -1.258 -.520 -.891

Pt/Pto 101-130
 .942 .977 .969 .939 .998 1.000 .995 1.000 .998 .951
 1.000 1.000 1.000 1.000 .969 1.000 1.000 1.000 1.000
 1.000 .991 1.000 1.000 1.000 .999 1.000 1.000 1.000

Ptc = 14.655 Pte/Pto = .991 K = .0616

Cp 310-320
~~220~~ .982 .785 .542 .400 .129 -.142 -.222 -.226 -.170 -.136

Cp 321-329
~~224~~ .745 .430 .219 .089 -.083 -.120 -.155 -.196

Pt 301-309 11.250 11.241 11.458 11.850 12.208 12.624 12.709 12.739 12.742

Pt 201-206 12.566 12.667 12.730 12.656 12.484 12.337

Pt 207-212 11.926 11.988 12.021 1.990 11.931 11.848

Pt 213-224 12.985 11.142 ~~10.776~~ ~~10.822~~ 1.121 11.883 11.969 12.090 12.188 12.984 13.000 12.926

Pt 225-236 13.662 11.824 10.735 10.687 11.332 11.655 11.686 11.770 11.876 ~~11.541~~ 12.959 13.214

Pt 237-245 14.787 14.209 12.984 12.288 12.177 12.536 12.505 12.265 12.225

Pev = 12.573 L = .0268 Pev = 11.951 Pte/Pev = 1.166 Wc = 1.79 T = 90. B = 29.63

| | |
|--------|--|
| Pt/Pto | 131-144 |
| .996 | 1.000 .999 -.678 -.533 -.349 .393 -.270 -.641 -.808 -.728 -.627 -.587 -1.185 -.485 -.862 |
| Cp | 330-344 |
| .940 | .971 .956 .944 1.000 1.000 .993 1.000 .980 .948 |
| 1.000 | 1.000 1.000 1.000 .997 .961 1.000 1.000 1.000 |
| 1.000 | .981 1.000 1.000 1.000 .999 1.000 1.000 1.000 |
| Ptc = | 14.626 Ptc/Pto = .989 K = .0603 |
| Cp | 310-320 |
| .993 | .812 .562 .426 .170 -.104 -.175 -.171 -.122 -.084 |
| Cp | 321-329 |
| .945 | .671 .476 .333 .109 -.015 -.090 -.176 |
| Pz | 301-309 |
| 11.147 | 11.069 11.231 11.564 11.921 12.560 12.667 12.690 12.687 |
| Pz | 201-206 |
| 12.494 | 12.615 12.666 12.604 12.432 12.277 |
| Pz | 207-212 |
| 11.857 | 11.921 11.956 11.925 11.859 11.776 |
| Pz | 213-224 |
| 12.936 | 11.014 10.607 10.654 10.948 11.780 11.875 12.010 12.118 12.936 12.948 12.880 |
| Pz | 225-236 |
| 13.066 | 11.042 9.961 10.134 11.185 11.407 11.494 11.624 11.761 14.553 12.902 13.122 |
| Pz | 237-245 |
| 14.786 | 14.131 12.873 12.187 12.093 12.467 12.443 12.198 12.161 |
| Pzv = | 12.515 L = .0266 Pvz = 11.882 Pzc/Pzv = 1.169 Wc = 1.79 T = 91. B = 29.63 |

Rum 14-14 C1 IO SO BI Eng 2 $\alpha=4^\circ$ $\beta=-4^\circ$ m/m²-.677 0.833

Pt/Pto 131-144

~~996-~~ .999 ~~999-~~ .992 .988 .999 1.000 .999 .997 .992 .988 ~~977-~~ .980

Cp 330-344

~~954-~~ .999 ~~998~~ -.598 -.516 -.366 .387 -.279 -.643 -.805 -.726 -.622 -.591 -1.199 -.494 -.922

Pt/Pto 101-130

.942 .932 .962 .954 1.000 1.000 .991 .955 .974 .945
1.000 1.000 1.000 .968 .978 .964 1.000 1.000 .980
.987 .987 1.000 1.000 1.000 .998 .999 1.000 1.000 1.000

Ptc = 14.545 Ptc/Pto = .984 K = .0697

Cp 310-320

~~975-~~ .880 .734 .511 .384 .141 -.125 -.187 -.187 -.142 -.107

Cp 321-329

~~939-~~ .982 .916 .744 .609 .351 .114 -.013 -.144

Ps 301-309 14.462 14.197 14.485 11.088 11.642 12.358 12.482 12.476 12.485

Ps 201-206 12.301 12.416 12.519 12.440 12.254 12.084

Ps 207-212 11.627 11.691 11.754 11.692 11.625 11.544

Ps 213-224 12.740 10.723 -10.596 -10.385 10.618 11.545 11.648 11.799 11.921 12.760 12.753 12.706

Ps 225-236 12.077 9.966 n.g. 9.543 10.651 11.073 11.233 11.421 11.605 ~~14.543-~~ 12.588 12.848

Ps 237-245 14.771 13.999 12.635 11.916 11.829 12.247 12.224 11.959 11.938

Ptcv = 12.336 L = .0299 Ptc = 11.656 Ptc/Ptcv = 1.179 Wc = 1.82 T = 92. B = 29.62

Run 14-15 C1 IO SO B1 Eng 2 $\alpha=4^\circ$ $\beta=-10^\circ$ m/m* = .677 0.730

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|----------------------------------|-----------|--------|-------------------|-------------------|--------|-----------|---------|-----------|--------|-------------------|-----------------|-------------|
| Pt/Pto 131-144 997 | .999 | .999 | .992 | .988 | .999 | 1.000 | .999 | .997 | .993 | .988 | .975 | .979 |
| Cp 330-344 298 | .249 | .598 | .566 | .445 | .329 | .317 | .664 | .821 | .743 | .645 | .634 | .542 -1.026 |
| Pt/Pto 101-130 | | | | | | | | | | | | |
| .939 | .901 | .948 | .971 | 1.000 | 1.000 | .987 | .908 | .959 | .962 | | | |
| 1.000 | 1.000 | 1.000 | .918 | .967 | .969 | 1.000 | 1.000 | 1.000 | .935 | | | |
| .973 | .988 | 1.000 | 1.000 | .999 | .973 | .988 | 1.000 | 1.000 | 1.000 | | | |
| Ptc = 14.437 | Ptc/Pto = | .976 | K = | .1014 | | | | | | | | |
| Cp 310-320 154 | .735 | .612 | .400 | .282 | .051 | .199 | .270 | .288 | .222 | .203 | | |
| Cp 321-329 260 | .841 | .942 | .862 | .751 | .489 | .193 | .029 | .133 | | | | |
| Ps 301-309 | 13.993 | 13.585 | 14.057 | 10.762 | 11.379 | 12.184 | 12.254 | 12.260 | 12.309 | | | |
| Ps 201-206 | 12.156 | 12.282 | 12.382 | 12.347 | 12.107 | 11.930 | | | | | | |
| Ps 207-212 | 11.455 | 11.559 | 11.618 | 11.514 | 11.440 | 11.363 | | | | | | |
| Ps 213-224 | 12.585 | 10.507 | 10.972 | 10.048 | 10.382 | 11.366 | 11.467 | 11.628 | 11.755 | 12.588 | 12.568 | 12.551 |
| Ps 225-236 | 11.269 | n.g. | n.g. | n.g. | 10.439 | 10.840 | 11.027 | 11.194 | 11.325 | 14.529 | 12.358 | 12.653 |
| Ps 237-245 | 14.770 | 13.930 | 12.482 | 11.711 | 11.609 | 12.055 | 12.024 | 11.739 | 11.742 | | | |
| Pcv = 12.201 | L = .0313 | Pcb = | 11.491 | Ptc/Pcv = | 1.183 | Wc = 1.82 | T = 92. | B = 29.63 | | | | |

Run 14-16 C1 IO SO H1 Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ $m/m^*=.674$ 0.732

Pt/Pto 131-144

~~999~~ .999 .999 ~~999~~ .994 .990 .999 1.000 1.000 .999 .996 .990 ~~996~~ .980

Cp 330-344

~~245~~ -.069 -.422 -.428 -.335 .406 -.149 -.493 -.679 -.648 -.580 -.619 -1.282 -.493 -1.003

Pt/Pto 101-130

.940 .911 .951 .963 1.000 .999 .985 .923 .964 .953
1.000 1.000 1.000 .935 .974 1.000 1.000 1.000 .951
.980 .995 1.000 1.000 1.000 .983 .994 1.000 1.000 1.000

Ptc = 14.482 Ptc/Pto = .979 K = .0913

Cp 310-320

~~163~~ .758 .741 .553 .438 .197 -.095 -.171 -.184 -.174 -.153

Cp 321-329

~~682~~ .935 .988 .836 .712 .451 .218 .084 -.050

Pb 301-309 13.934 13.530 14.143 10.905 11.593 12.239 12.321 12.347 12.389

Pb 201-206 12.213 12.333 12.438 12.384 12.171 11.994

Pb 207-212 11.523 11.608 11.670 11.582 11.513 11.437

Pb 213-224 12.130 10.143 10.504 ~~9.920~~ 10.264 11.352 11.485 11.661 11.800 12.668 12.649 12.614

Pb 225-236 11.563 9.434 n.g. n.g. 10.422 10.931 11.123 11.306 11.463 ~~14.529~~ 12.454 12.733

Pb 237-245 14.775 13.971 12.569 11.820 11.721 12.141 12.117 11.839 11.831

Pew = 12.256 L = .0306 Feb = 11.556 Ptc/Pew = 1.182 Wc = 1.82 T = 93. B = 29.63

| | |
|--------|---|
| Pt/Pto | 131-144 |
| -999- | 1.000 1.000 .994 .990 .999 1.000 1.000 .999 .995 .990 -.978 .981 |
| Cp | 330-344 |
| -182- | -.154 -.469 -.428 -.304 .472 -.112 -.471 -.663 -.631 -.558 -.572 -1.203 -.457 -.910 |
| Pt/Pto | 101-130 |
| .944 | .941 .963 .955 1.000 1.000 .987 .970 .974 .947 |
| 1.000 | 1.000 1.000 .983 .981 .968 1.000 1.000 1.000 .993 |
| .993 | .992 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 |
| Ptc = | 14.587 Ptc/Pto = .986 K = .0603 |
| Cp | 310-320 |
| -.675- | .914 .861 .644 .517 .259 -.047 -.125 -.138 -.118 -.092 |
| Cp | 321-329 |
| -.322- | 1.002 .861 .655 .511 .257 .082 -.014 -.115 |
| Ps | 301-309 14.558 14.377 10.714 11.298 11.827 12.424 12.546 12.548 12.548 |
| Ps | 201-206 12.362 12.477 12.561 12.492 12.310 12.144 |
| Ps | 207-212 11.696 11.762 11.812 11.762 11.694 11.612 |
| Ps | 213-224 12.329 10.414 10.477 10.226 10.539 11.556 11.683 11.845 11.972 12.819 12.816 12.758 |
| Ps | 225-236 12.387 10.256 n.g. |
| Ps | 237-245 14.775 14.027 12.695 12.001 11.915 12.320 12.298 12.038 12.008 |
| Pev = | 12.391 L = .0286 Peb = 11.723 Pte/Pew = 1.177 We = 1.81 T = 94. B = 29.63 |

Run 14-18 C1 IO SO B1 Eng 2 $\alpha = -4^\circ$ $\beta = 4^\circ$ $m/m^* = .677$ 0.731

Pt/Pto 131-144

~~999~~ 1.000 1.000 ~~1.000~~ .994 .990 .999 1.000 .999 .999 .994 .989 ~~.978~~ .981

Cp 330-344

~~885~~ -.357 -.603 -.508 -.360 .480 -.103 -.467 -.666 -.630 -.558 -.565 -1.187 -.475 -.885

Pt/Pto 101-130

.943 .971 .957 .947 1.000 1.000 .988 1.000 .988 .952
1.000 1.000 1.000 1.000 .999 .969 1.000 1.000 1.000 1.000
1.000 .990 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.643 Ptc/Pto = .990 K = .0579

Cp 310-320

~~075~~ .996 .895 .672 .534 .268 -.056 -.150 -.166 -.137 -.120

Cp 321-329

~~335~~ .829 .533 .307 .162 -.054 -.122 -.162 -.213

Ps 301-309 11.215 11.187 11.378 11.752 12.128 12.620 12.696 12.714 12.710

Ps 201-206 12.512 12.633 12.686 12.624 12.451 12.301

Ps 207-212 11.882 11.946 11.981 11.948 11.883 11.800

Ps 213-224 12.524 10.725 10.488 10.592 10.894 11.791 11.905 12.045 12.156 12.955 12.967 12.898

Ps 225-236 13.337 11.377 10.282 10.367 11.251 11.519 11.586 11.697 11.821 ~~11.549~~ 12.929 13.165

Ps 237-245 14.782 14.104 12.851 12.185 12.103 12.482 12.463 12.223 12.185

Pev = 12.535 L = .0263 Pev = 11.907 Ptc/Pev = 1.168 We = 1.79 T = 94. B = 29.63

Run 14-19 C1 IO SO B1 Eng 2 $\alpha = -4^\circ$ $\beta = -10^\circ$ $m/m^* = .677$ 0.732

Pt/Pto 131-144

~~999~~ 1.000 1.000 ~~1.000~~ .995 .990 .999 .998 .998 .993 .987 .977 .980

Cp 330-344

~~181~~ -.563 -.753 -.622 -.471 .442 -.135 -.489 -.685 -.653 -.585 -.610 -1.283 -.533 -.943

Pt/Pto 101-130

.938 .975 .972 .944 1.000 1.000 .991 1.000 1.000 .958
1.000 1.000 1.000 1.000 .975 1.000 1.000 1.000 1.000
1.000 .995 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.663 Ptc/Pto = .992 K = .0624

Cp 310-320

~~129~~ .972 .870 .639 .499 .224 -.119 -.225 -.247 -.218 -.216

Cp 321-329

~~368~~ .559 .217 .005 -.122 -.288 -.271 -.275 -.302

Ps 301-309 11.296 11.275 11.587 12.028 12.378 12.639 12.707 12.734 12.740

Ps 201-206 12.546 12.656 12.724 12.652 12.474 12.328

Ps 207-212 11.912 11.975 12.011 11.979 11.917 11.833

Ps 213-224 12.545 10.812 ~~10.518~~ 10.712 11.024 11.858 11.963 12.091 12.194 12.978 12.994 12.920

Ps 225-236 13.864 12.097 10.992 10.863 11.369 11.732 11.739 11.810 11.906 ~~14.538~~ 12.956 13.215

Ps 237-245 14.787 14.174 12.937 12.253 12.155 12.520 12.494 12.258 12.214

Pcv = 12.563 L = .0270 Pcb = 11.938 Ptc/Pcv = 1.167 Wc = 1.78 T = 95. B = 29.63

Rum 14-20 Cl IO SO Bl Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^*=677$ 0.730

Pt/Pto 131-144
~~997~~ 1.000 .999 ~~1.000~~ .993 .989 .999 1.000 .999 .998 .993 .988 ~~.978~~ .981
 Cp 330-344
~~997~~ -.297 -.581 -.490 -.331 .443 -.189 -.555 -.740 -.684 -.594 -.573 -1.174 -.470 -.875

Pt/Pto 101-130
 .943 .957 .953 1.000 1.000 .990 .995 .969 .952
 1.000 1.000 .999 .986 .964 1.000 1.000 1.000
 .999 .983 1.000 1.000 1.000 1.000 .999 1.000 1.000

Ptc = 14.613 Ptc/Pto = .988 K = .0572

Cp 310-320
~~997~~ .968 .835 .606 .475 .215 -.077 -.154 -.122 -.088

Cp 321-329
~~997~~ .963 .786 .559 .414 .172 .019 -.061 -.158

Pa 301-309 10.980 10.822 11.072 11.479 11.874 12.547 12.646 12.653 12.650

Pa 201-206 12.458 12.581 12.637 12.580 12.400 12.247

Pa 207-212 11.815 11.877 11.919 11.883 11.816 11.735

Pa 213-224 12.684 10.778 ~~10.529~~ 10.799 11.714 11.821 11.967 12.086 12.904 12.910 12.846

Pa 225-236 12.770 10.695 9.643 9.917 11.087 11.313 11.423 11.579 11.737 14.555 12.805 13.040

Pa 237-245 14.781 14.078 12.800 12.122 12.034 12.425 12.402 12.155 12.121

Pev = 12.484 L = .0267 Peb = 11.841 Ptc/Pev = 1.171 Wc = 1.79 T = 96. B = 29.63

Run 14-21 C1 IO SO B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^*=677$ 0.731

Pt/Pto 131-144

~~997~~ 1.000 .999 ~~1.000~~ .993 .989 .999 1.000 .999 .998 .993 .988 ~~970~~ .981

Cp 330-344

~~134~~ -.295 -.574 -.481 -.325 .446 -.182 -.549 -.732 -.675 -.588 -.568 -1.148 -.466 -.858

Pt/Pto 101-130

.945 .964 .958 .954 1.000 1.000 .992 .996 .969 .953
1.000 1.000 1.000 .999 .986 .965 1.000 1.000 1.000 1.000
.999 .984 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.798 Ptc/Pto = .989 K = .0561

Cp 310-320

~~057~~ .974 .834 .603 .470 .217 -.077 -.151 -.123 -.087

Cp 321-329

~~1716~~ .974 .759 .551 .407 .168 .015 -.065 -.158

Pa 301-309 11.204 11.057 11.317 11.722 12.108 12.763 12.853 12.869 12.861

Pa 201-206 12.657 12.796 12.850 12.787 12.611 12.449

Pa 207-212 12.051 12.112 12.152 12.120 12.049 11.969

Pa 213-224 12.901 11.001 ~~11.001~~ 10.738 11.054 11.924 12.042 12.186 12.304 13.114 13.121 13.058

Pa 225-236 12.974 10.917 9.876 10.136 11.287 11.532 11.648 11.799 11.954 14.726 13.022 13.247

Pa 237-245 14.959 14.273 13.016 12.355 12.270 12.641 12.610 12.373 12.339

Pcv = 12.692 L = .0271 Pcb = 12.076 Ptc/Pcv = 1.166 Wc = 1.85 T = 63. B = 29.99

Run 14-23 C1 IO SO B1 Eng 2 a--10° β=0° m/m--677 0.730

Pt/Pto 131-144

~~999~~ 1.000 1.000 ~~1.000~~ .996 .992 .999 1.000 1.000 .997 .991 .979 .982

Cp 330-344

~~129~~ -.155 -.424 -.390 -.285 .565 .051 -.297 -.506 -.459 -.505 -1.121 -.406 -.828

Pt/Pto 101-130

.947 .972 .958 .955 1.000 1.000 .986 1.000 .972 .957
1.000 1.000 1.000 1.000 .991 .972 1.000 1.000 1.000 1.000
1.000 .990 1.000 1.000 1.000 .999 1.000 1.000 1.000 1.000

Ptc = 14.817 Ptc/Pto = .990 K = .0535

Cp 310-320

~~118~~ .936 .936 .760 .631 .378 .030 -.065 -.094 -.087 -.081

Cp 321-329

~~1636~~ .849 .578 .363 .216 -.019 -.108 -.153 -.194

Ps 301-309 11.243 11.227 11.520 11.944 12.356 12.837 12.913 12.925 12.919

Ps 201-206 12.728 12.861 12.909 12.849 12.675 12.522

Ps 207-212 12.133 12.194 12.230 12.200 12.132 12.054

Ps 213-224 12.330 10.621 9.789 10.652 11.032 11.940 12.085 12.242 12.365 13.170 13.177 13.111

Ps 225-236 13.309 11.313 10.256 10.427 11.475 11.672 11.763 11.897 12.038 14.717 13.116 13.327

Ps 237-245 14.961 14.300 13.080 12.439 12.356 12.708 12.678 12.450 12.414

Pev = 12.757 L = .0261 Pev = 12.157 Ptc/Pev = 1.161 Wc = 1.83 T = 66. B = 29.99

Run 14-24 C1 IO S0 B1 Eng 2 $\alpha = -20^\circ$ $\beta = 0^\circ$ $m/m^* = .677$ 0.732

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ .999 .995 1.000 1.000 1.000 .999 .994 ~~.998~~ .981

Cp 330-344

~~.093~~ -.021 -.246 -.266 -.225 .697 .311 .007 -.212 -.262 -.257 -.384 -1.076 -.291 -.770

Pt/Pto 101-130

.948 .971 .959 .955 1.000 1.000 .976 1.000 .975 .961
1.000 1.000 1.000 .995 .980 1.000 1.000 1.000 .999
1.000 .996 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.826 Ptc/Pto = .990 K = .0525

Cp 310-320

~~.192~~ .764 .978 .902 .802 .564 .189 .074 .022 -.003 -.029

Cp 321-329

~~.167~~ .668 .389 .152 -.001 -.242 -.301 -.309 -.325

Ps 301-309 11.340 11.322 11.631 12.108 12.544 12.869 12.924 12.938 12.929

Ps 201-206 12.702 12.869 12.918 12.859 12.683 12.530

Ps 207-212 12.143 12.204 12.240 12.210 12.143 12.063

Ps 213-224 11.473 10.071 ~~-9.840~~ 10.418 11.224 11.881 12.068 12.240 12.370 13.177 13.120

Ps 225-236 13.501 11.567 10.490 10.594 11.517 11.744 11.818 11.938 12.069 ~~14.701~~ 13.145 13.360

Ps 237-245 14.961 14.297 13.081 12.443 12.365 12.719 12.689 12.463 12.425

Pcw = 12.760 L = .0261 Pcb = 12.167 Ptc/Pcw = 1.162 Wc = 1.83 T = 67. B = 29.99

Run 14-25 C1 IO S0 B1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ $m/m^*=677$ 0.732

Pt/Pto 131-144

~~996~~ .999 .999 ~~1.000~~ .992 .988 .999 .999 .998 .996 .992 .987 ~~977~~ .980

Cp 330-344

~~128~~ -.351 -.627 -.508 -.339 .399 -.268 -.636 -.801 -.720 -.617 -.573 -1.145 -.475 -.854

Pt/Pto 101-130

.943 .959 .958 .952 1.000 1.000 .994 .992 .967 .951
1.000 1.000 .998 .982 .963 .999 1.000 1.000 1.000
.998 .982 1.000 1.000 1.000 1.000 .999 1.000 1.000

Ptc = 14.786 Ptc/Pto = .988 K = .0574

Cp 310-320

~~074~~ .949 .779 .535 .407 .159 -.107 -.172 -.168 -.123 -.079

Cp 321-329

~~1579~~ .980 .818 .615 .472 .228 .047 -.054 -.164

Ps 301-309 11.168 11.007 11.213 11.599 11.989 12.731 12.836 12.845 12.838

Ps 201-206 12.639 12.776 12.835 12.768 12.590 12.428

Ps 207-212 12.023 12.085 12.126 12.092 12.019 11.943

Ps 213-224 13.107 11.156 ~~9.966~~ 10.779 11.084 11.925 12.031 12.169 12.286 13.094 13.101 13.039

Ps 225-236 12.807 10.744 9.726 10.027 11.210 11.487 11.611 11.771 11.933 ~~14.726~~ 12.983 13.219

Ps 237-245 14.961 14.267 12.998 12.330 12.241 12.616 12.584 12.345 12.314

Pcv = 12.673 L = .0275 Pcb = 12.048 Ptc/Pcv = 1.167 Wc = 1.84 T = 68. B = 29.99

Run 14-26 C1 IO S0 B1 Eng 2 $\alpha=10^\circ$ $\beta=0^\circ$ $m/m^*=57$ 0.731

Pt/Pto 131-144

[illegible]

CP 330-344

| | | | | | | | | | | | | | | |
|------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| -.211 | -.420 | -.685 | -.536 | -.353 | .340 | -.370 | -.731 | -.866 | -.752 | -.628 | -.559 | -1.119 | -.467 | -.836 |
|------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|--------|-------|-------|

Pt/Pto 101-130

| | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|
| .943 | .950 | .948 | 1.000 | .995 | .978 | .949 |
| 1.000 | 1.000 | .988 | .981 | 1.000 | 1.000 | .995 |
| .994 | .981 | 1.000 | 1.000 | .999 | .999 | 1.000 |

$$P_{TC} = 14.763 \quad P_{TC}/P_{TO} = .986 \quad K = .0578$$

CP 310-320

| | | | | | | | | | | |
|-------|------|------|------|------|------|-------|-------|-------|-------|-------|
| -1.67 | .923 | .696 | .454 | .329 | .098 | -.128 | -.181 | -.169 | -.105 | -.062 |
|-------|------|------|------|------|------|-------|-------|-------|-------|-------|

CP 321-329

| | | | | | | | | |
|-------|------|------|------|------|------|------|-------|-------|
| 116.7 | .986 | .866 | .684 | .554 | .302 | .190 | -.064 | -.194 |
|-------|------|------|------|------|------|------|-------|-------|

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 301-309 | 11.047 | 10.848 | 11.025 | 11.459 | 11.889 | 12.687 | 12.796 | 12.805 | 12.799 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Pa 201-206 12.605 12.735 12.814 12.737 12.557 12.392

Pa 207-212 11.979 12.042 12.089 12.048 11.983 11.900

| Pr | 213-224 | 13.361 | 11.364 | 10.834 | 11.136 | 11.917 | 12.009 | 12.141 | 12.254 | 13.058 | 13.061 | 13.006 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pr | 213-224 | 13.361 | 11.364 | 10.834 | 11.136 | 11.917 | 12.009 | 12.141 | 12.254 | 13.058 | 13.061 | 13.006 |

| Pa | 225-232 | 13 | 510 | 01 | 503 | 0 | 233 | 0 | 340 | 0 | 120 | 0 | 127 | 0 | 423 | 0 | 250 | 0 | 214 | 0 | 202 | 0 | 12 |
|----|---------|----|-----|----|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|----|
| Pa | 225-232 | 13 | 510 | 01 | 503 | 0 | 233 | 0 | 340 | 0 | 120 | 0 | 127 | 0 | 423 | 0 | 250 | 0 | 214 | 0 | 202 | 0 | 12 |

P-277

$P_{EV} = 12.640$ $L = .0286$ $P_{EB} = 12.007$ $P_{TC}/P_{EV} = 1.168$ $W_C = 1.84$ $T = 69.$ $B = 29.99$

Run 14-27 C1 IO SO B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $m/m^*=677$ 0.733, 0.730

Pt/Pto 131-144

~~990~~ .997 .995 ~~999~~ .989 .986 .999 .998 .995 .993 .989 .985 ~~975~~ .979

Cp 330-344

~~640~~ -.512 -.734 -.550 -.376 .274 -.477 -.814 -.899 -.737 -.591 -.504 -1.101 -.433 -.830

Pt/Pto 101-130

.943 .932 .956 .956 1.000 1.000 .997 .952 .969 .953
1.000 1.000 .963 .976 .958 1.000 1.000 .975
.986 .973 1.000 1.000 .995 .998 .999 1.000 1.000

Ptc = 14.707 Ptc/Pto = .983 K = .0694

Cp 110-320

~~180~~ .875 .591 .364 .253 .051 -.114 -.146 -.112 -.067 -.049

Cp 321-329

~~1540~~ .888 .897 .756 .636 .374 .053 -.115 -.274

Ps 301-309 10.751 14.544 14.737 11.248 11.750 12.585 12.695 12.699 12.701

Ps 201-206 12.517 12.631 12.741 12.663 12.465 12.295

Ps 207-212 11.864 11.924 11.990 11.938 11.865 11.783

Ps 213-224 13.597 11.560 ~~10.293~~ 10.838 11.140 11.845 11.924 12.049 12.157 12.965 12.965 12.917

Ps 225-236 12.001 10.014 n.g. 9.746 10.966 11.323 11.480 11.664 11.839 ~~14.702~~ 12.785 13.052

Ps 237-245 14.962 14.250 12.910 12.185 12.079 12.466 12.429 12.173 12.156

Pev = 12.552 L = .0303 Peb = 11.894 Ptc/Pev = 1.172 Wc = 1.85 T = 71. B = 29.99

Run 14-28 C1 IO SO H1 Eng 2 $\alpha=0^\circ$ $\beta=-4^\circ$ $m/m^* = 697$ 0.732

Pt/Pto 131-144

~~998~~ 1.000 1.000 ~~999~~ .993 .989 .999 1.000 1.000 .998 .994 .989 ~~978~~ .980

Cp 330-344

~~927~~ -.221 -.532 -.468 -.327 .433 -.194 -.555 -.736 -.677 -.591 -.576 -1.169 -.472 -.888

Pt/Pto 101-130

.944 .940 .964 .955 1.000 1.000 .931 .965 .975 .947
1.000 1.000 .977 .980 .967 1.000 1.000 .988
.991 .990 1.000 1.000 .999 .999 1.000 1.000 1.000

Ptc = 14.753 Ptc/Pto = .986 K = .0605

Cp 310-320

~~110~~ .899 .776 .572 .444 .195 -.090 -.160 -.165 -.136 -.096

Cp 321-329

~~1526~~ .982 .868 .697 .558 .302 .104 -.008 -.128

Ps 301-309 10.789 14.578 10.899 11.473 11.996 12.626 12.752 12.751 12.754

Ps 201-206 12.566 12.690 12.783 12.703 12.521 12.351

Ps 207-212 11.934 11.995 12.048 12.000 1.932 11.852

Ps 213-224 12.806 10.853 10.350 10.557 10.878 11.802 11.923 12.076 12.200 13.023 13.021 12.968

Ps 225-236 12.464 10.374 n.g. 9.859 11.034 11.376 11.526 11.712 11.896 14.720 12.865 13.118

Ps 237-245 14.956 14.222 12.915 12.231 12.145 12.532 12.502 12.254 12.226

Pcw = 12.602 L = .0293 Feb = 11.960 Ptc/Pcw = 1.171 Wc = 1.85 T = 72. B = 29.99

Run 14-29 C1 IO S0 B1 Eng 2 $\alpha=0^\circ$ $\beta=-10^\circ$ $m/m^*=.677$ 0.731

| | | | | | | | | | | | | | | |
|----------------|----------------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|--------|--------|-------|-------|
| Pt/Pto 131-144 | .999 | -.999 | .993 | .989 | .999 | 1.000 | 1.000 | .999 | .994 | .989 | -.976 | .979 | | |
| Cp 330-344 | | | | | | | | | | | | | | |
| | -.155 | -.507 | -.492 | -.385 | .369 | -.233 | -.580 | -.752 | -.697 | -.613 | -.628 | -1.258 | -.520 | -.998 |
| Pt/Pto 101-130 | | | | | | | | | | | | | | |
| | .941 | .910 | .950 | .969 | 1.000 | 1.000 | .987 | .919 | .963 | .958 | | | | |
| | 1.000 | 1.000 | .928 | .972 | .974 | 1.000 | 1.000 | 1.000 | 1.000 | .943 | | | | |
| | .980 | .994 | 1.000 | 1.000 | .977 | .991 | 1.000 | 1.000 | 1.000 | 1.000 | | | | |
| Ptc = 14.649 | Ptc/Pto = .979 | K = .0925 | | | | | | | | | | | | |
| Cp 310-320 | | | | | | | | | | | | | | |
| | .752 | .682 | .474 | .355 | .124 | -.156 | -.220 | -.230 | -.199 | -.180 | | | | |
| Cp 321-329 | | | | | | | | | | | | | | |
| | .905 | .988 | .850 | .733 | .475 | .210 | .059 | -.082 | | | | | | |
| Ps 301-309 | 14.217 | 13.808 | 14.330 | 11.052 | 11.706 | 12.428 | 12.514 | 12.531 | 2.573 | | | | | |
| Ps 201-206 | 12.404 | 12.529 | 12.638 | 12.584 | 12.359 | 12.182 | | | | | | | | |
| Ps 207-212 | 11.739 | 11.834 | 11.890 | 11.800 | 11.728 | 11.652 | | | | | | | | |
| Ps 213-224 | 12.599 | 10.565 | 10.359 | 10.233 | 10.583 | 11.579 | 11.706 | 11.871 | 12.003 | 12.852 | 12.835 | 12.806 | | |
| Ps 225-236 | 11.615 | 9.546 | n.g. | n.g. | 10.733 | 11.166 | 11.338 | 11.493 | 11.636 | 14.703 | 12.630 | 12.915 | | |
| Ps 237-245 | 14.955 | 14.159 | 12.760 | 12.025 | 11.921 | 12.333 | 12.295 | 12.025 | 12.021 | | | | | |
| Pcv = 12.449 | L = .0311 | Pcb = 11.774 | Ptc/Pcv = 1.177 | Wc = 1.86 | T = 72. | B = 29.99 | | | | | | | | |

Run 14-30 C1 IO 90 B1 Eng 2 $\alpha=0^\circ$ $\beta=4^\circ$ $\mu/\mu^*=.677$ 0.733

Pt/Pto 131-144

~~997~~ 1.000 1.000 1.000 .993 .989 .999 1.000 .999 .998 .987 .978 .981

Cp 330-344

~~031~~ -.393 -.640 -.519 -.352 .429 -.189 -.556 -.740 -.684 -.595 -.577 -1.171 -.481 -.862

Pt/Pto 101-130

.942 .977 .958 .947 1.000 1.000 .992 1.000 .986 .951
1.000 1.000 1.000 .999 .967 1.000 1.000 1.000 1.000
1.000 .987 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.822 Ptc/Pto = .990 K = .0583

Cp 310-320

~~066~~ 1.005 .857 .612 .478 .217 -.085 -.166 -.171 -.133 -.102

Cp 321-329

~~1438~~ .896 .616 .387 .245 .028 -.065 -.123 -.190

Pa 301-309 11.413 11.347 11.521 11.880 12.245 12.793 12.877 12.895 12.890

Pa 201-206 12.683 12.814 12.869 12.802 12.626 12.470

Pa 207-212 12.069 12.133 12.168 12.137 12.068 11.989

Pa 213-224 12.959 11.084 10.434 10.838 11.146 11.985 12.095 12.229 12.340 13.135 13.149 13.079

Pa 225-236 13.409 11.423 10.345 10.470 11.466 11.670 11.746 11.864 11.993 14.725 13.105 13.337

Pa 237-245 14.965 14.291 13.037 12.375 12.290 12.660 12.637 12.402 12.364

Pev = 12.711 L = .0269 Pev = 12.094 Ptc/Pev = 1.166 We = 1.83 T = 74. B = 29.99

Run 14-31 C1 IO SO B1 Eng 2 $\alpha=0^\circ$ $\beta=10^\circ$ $m/m^2=677$ 0.731

Pt/Pto 131-144

~~998~~ 1.000 1.000 ~~999~~ .993 .989 .998 .998 .998 .997 .992 .985 .976 .979

Cp 330-344

~~364~~ -.578 -.765 -.609 -.437 .387 -.213 -.578 -.761 -.705 -.620 -.620 -1.262 -.529 -.913

Pt/Pto 101-130

.941 .980 .973 .942 1.000 1.000 .995 1.000 1.000 .955
1.000 1.000 1.000 1.000 .972 1.000 1.000 1.000 1.000
1.000 .992 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.846 Ptc/Pto = .992 K = .0597

Cp 310-320

~~301~~ .984 .827 .585 .444 .173 -.139 -.231 -.242 -.203 -.178

Cp 321-329

~~340~~ .652 .341 .105 -.020 -.186 -.195 -.213 -.242

Ps 301-309 11.457 11.460 11.743 12.177 12.529 12.827 12.896 12.922 12.923

Ps 201-206 12.725 12.840 12.911 12.830 12.653 12.502

Ps 207-212 12.105 12.167 12.202 12.171 12.108 12.025

Ps 213-224 12.986 11.183 10.509 10.973 11.287 12.063 12.162 12.284 12.384 13.161 13.178 13.103

Ps 225-236 13.967 12.173 11.083 10.994 11.584 11.890 11.911 11.987 12.086 14.713 13.135 13.395

Ps 237-245 14.965 14.355 13.120 12.442 12.343 12.702 12.672 12.439 12.400

Pcw = 12.744 L = .0275 Pcb = 12.130 Ptc/Pcw = 1.165 Wc = 1.83 T = 75. B = 29.99

Run 14-32 C1 IO SO H1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^* = .677$ 0.731

Pt/Pto 131-144

1.000 1.000 1.000 .997 .993 .989 .999 1.000 .999 .998 .993 .988 .978 .981

Cp 330-344

~~140~~ -.295 -.576 -.479 -.322 .448 -.186 -.552 -.735 -.676 -.588 -.558 -1.128 -.460 -.841

Pt/Pto 101-130

.946 .964 .959 .955 1.000 1.000 .991 .996 .970 .954
1.000 1.000 1.000 .987 .966 1.000 1.000 1.000 1.000
.999 .984 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.766 Ptc/Pto = .989 K = .0554

Cp 310-320

~~040~~ .993 .852 .596 .466 .211 -.079 -.152 -.153 -.121 -.087

Cp 321-329

~~145~~ .997 .782 .552 .407 .167 .016 -.063 -.158

Ps 301-309 11.229 11.087 11.348 11.741 12.123 12.762 12.857 12.864 12.857

Ps 201-206 12.655 12.790 12.843 12.782 12.608 12.446

Ps 207-212 12.056 12.114 12.156 12.124 12.056 11.977

Ps 213-224 12.932 11.045 -9.736 10.783 11.087 11.944 12.056 12.196 12.311 13.103 13.109 13.046

Ps 225-236 12.977 10.946 9.930 10.190 11.330 11.554 11.666 11.815 11.966 14.688 13.012 13.238

Ps 237-245 14.919 14.240 12.999 12.348 12.265 12.637 12.602 12.373 12.342

Pev = 12.687 L = .0269 Pev = 12.081 Ptc/Pev = 1.164 Wc = 1.83 T = 68. B = 29.91

Run 15-1 C1 IO SO B1 Eng 2 $\alpha=0^\circ$ $\beta=C^\circ$ m/m² = ~~7.71~~ 0.812

Pt/Pto 131-144

~~998~~ 1.000 1.000 1.000 .933 .989 .999 1.000 .999 .998 .993 .988 ~~.975~~ .979

Cp 330-344

~~128~~ .308 -.596 -.512 -.372 .438 -.198 -.572 -.764 -.714 -.632 -.682 -1.493 -.558 -1.110

Pt/Pto 101-130

.929 .936 .950 .939 1.000 1.000 .985 .978 .964 .938
1.000 1.000 1.000 .991 .977 .957 1.000 1.000 .997
.995 .981 1.000 1.000 .999 1.000 1.000 1.000 1.000 1.000

Ptc = 14.724 Ptc/Pto = .984 K = .0719

Cp 310-320

~~.088~~ .907 .902 .691 .554 .282 -.054 -.136 -.145 -.120 -.088

Cp 321-329

~~1.371~~ .981 .841 .633 .485 .221 .048 -.047 -.146

Ps 301-309 13.858 13.651 13.858 14.422 11.000 11.976 12.144 12.147 12.144

Ps 201-206 11.852 12.029 12.128 12.041 11.813 11.594

Ps 207-212 11.008 11.097 11.162 11.108 10.992 10.884

Ps 213-224 12.009 9.639 10.247 n.g. 9.593 10.858 11.014 11.217 11.385 12.486 12.487 12.405

Ps 225-236 12.273 9.764 n.g. n.g. 9.836 10.367 10.523 10.748 10.971 14.722 12.332 12.651

Ps 237-245 14.957 14.084 12.433 11.493 11.348 11.860 11.822 11.493 11.462

Pcw = 11.909 L = .0363 Pcb = 11.042 Ptc/Pcw = 1.236 Wc = 2.04 T = 77. B = 29.99

Run 15-2 C1 IO SO B1 Eng 2 $\alpha = -4^\circ$ $\beta = 0^\circ$ $m/m^* = .711$ 0.808, 0.815

Pt/Pto 131-144

~~.999~~ .999 .999 ~~.999~~ .994 .990 .999 .999 .999 .989 .989 .975- .980

Cp 330-344

.126 -.250 -.531 -.471 -.352 .478 -.104 -.470 -.671 -.653 -.583 -.659 -1.479 -.536 -1.098

Pt/Pto 101-130

.928 .939 .950 .939 1.000 1.000 .981 .983 .964 .940
1.000 1.000 1.000 .995 .978 .959 1.000 1.000 .999
.996 .985 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.736 Ptc/Pto = .984 K = .0726

Cp 310-320

~~.091~~ .879 .931 .740 .607 .337 -.015 -.104 -.125 -.112 -.089

Cp 321-329

~~-1.320~~ .956 .783 .560 .411 .146 .008 -.071 -.146

Ps 301-309 13.901 13.732 13.969 14.524 11.095 11.998 12.168 12.177 12.177

Ps 201-206 11.880 12.061 12.149 12.066 11.842 11.624

Ps 207-212 11.044 11.132 11.194 1.142 11.026 10.920

Ps 213-224 11.729 n.g. 10.138 n.g. 9.546 10.840 11.017 11.227 11.399 12.513 12.512 12.427

Ps 225-236 12.408 9.898 n.g. n.g. 9.879 10.399 10.546 10.762 10.987 14.718 12.368 12.682

Ps 237-245 14.959 14.108 12.472 11.545 11.395 11.894 11.858 11.530 11.495

Pcv = 11.937 L = .0356 Pcb = 11.076 Ptc/Pcv = 1.235 Wc = 2.04 T = 77. B = 29.99

Run 15-3 C1 IO S0 B1 Eng 2 $\alpha = -10^\circ$ $\beta = 0^\circ$ $m/\pi^* = 222$ 0.806, 0.816

Pt/Pto 131-144

~~999~~ 1.000 1.000 ~~1.000~~ .996 .992 .999 1.000 1.000 1.000 .937 .991 ~~976~~ .980

Cp 330-344

~~119~~ -.166 -.440 -.414 -.326 .559 .038 -.315 -.531 -.540 -.502 -.620 -1.476 -.499 -1.089

Pt/Pto 101-130

.927 .947 .941 1.000 1.000 .975 .995 .961 .944
1.000 1.000 1.000 .982 .982 1.000 1.000 1.000
.998 .986 1.000 1.000 1.000 1.000 .999 1.000 1.000

Ptc = 14.749 Ptc/Pto = .985 K = .0740

Cp 310-320

~~140~~ .808 .956 .630 .710 .440 .056 -.049 -.062 -.084 -.080

Cp 321-329

~~1301~~ .899 .672 .454 .296 .039 -.076 -.133 -.186

Ps 301-309 14.016 13.893 14.155 14.676 11.205 12.047 12.197 12.207 12.203

Ps 201-206 11.898 12.097 12.170 12.097 11.870 11.658

Ps 207-212 11.085 11.174 11.231 11.186 11.065 10.961

Ps 213-224 11.284 n.g. 9.981 n.g. n.g. 10.828 11.033 11.249 11.426 12.541 12.541 12.457

Ps 225-236 12.594 10.086 n.g. n.g. 9.945 10.461 10.597 10.799 11.013 14.711 12.426 12.721

Ps 237-245 14.960 14.121 12.509 11.590 11.441 11.935 11.895 11.572 11.533

Pcv = 11.965 L = .0347 Pcb = 11.117 Ptc/Pcv = 1.233 Wc = 2.03 T = 79. B = 29.99

Run 15-4 CL IO SO BI Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $m/m^*=2.27$ 0.803, 0.819

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ .998 .994 .999 1.000 1.000 1.000 .999 .994 ~~.977~~ .980

Cp 330-344

~~.007~~ -.033 -.259 -.286 -.258 .694 .304 -.008 -.235 -.294 -.296 -.495 -1.422 -.378 -1.026

Pt/Pto 101-130

.933 .951 .946 .941 1.000 1.000 .965 1.000 .961 .948
1.000 1.000 1.000 1.000 .986 .968 1.000 1.000 1.000
.999 .991 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.761 Ptc/Pto = .986 K = .0678

Cp 310-320

~~.197~~ .574 .990 .945 .856 .620 .216 .093 .034 .003 -.028

Cp 321-329

~~.257~~ .749 .482 .246 .082 -.183 -.269 -.288 -.309

Pa 301-309 14.052 13.998 14.308 10.849 11.424 12.097 12.222 12.236 12.232

Pa 201-206 11.882 12.120 12.186 12.119 11.890 11.682

Pa 207-212 11.109 11.202 11.258 11.216 11.095 10.992

Pa 213-224 10.324 n.g. 9.730 n.g. 9.579 10.790 11.029 11.262 11.446 12.555 12.551 12.481

Pa 225-236 12.798 10.335 n.g. n.g. 10.006 10.527 10.650 10.840 11.040 ~~14.697~~ 12.490 12.768

Pa 237-245 14.960 14.128 12.529 11.616 11.472 11.960 11.922 11.602 11.559

Pcw = 11.980 L = .0342 Pcb = 11.145 Ptc/Pcw = 1.232 Wc = 2.03 T = 80. B = 29.99

| Pt/Pto | 131-144 | 145-158 | 159-172 | 173-186 | 187-200 | 201-214 | 215-228 | 229-242 | 243-256 | 257-270 | 271-284 | 285-298 | 299-312 | 313-326 | 327-340 | 341-354 | 355-368 | 369-382 | 383-396 | 397-410 | 411-424 | 425-438 | 439-452 | 453-466 | 467-480 | 481-494 | 495-508 | 509-522 | 523-536 | 537-550 | 551-564 | 565-578 | 579-592 | 593-606 | 607-620 | 621-634 | 635-648 | 649-662 | 663-676 | 677-690 | 691-704 | 705-718 | 719-732 | 733-746 | 747-760 | 761-774 | 775-788 | 789-802 | 803-816 | 817-830 | 831-844 | 845-858 | 859-872 | 873-886 | 887-900 | 901-914 | 915-928 | 929-942 | 943-956 | 957-970 | 971-984 | 985-998 | 999-1012 | 1013-1026 | 1027-1040 | 1041-1054 | 1055-1068 | 1069-1082 | 1083-1096 | 1097-1110 | 1111-1124 | 1125-1138 | 1139-1152 | 1153-1166 | 1167-1180 | 1181-1194 | 1195-1208 | 1209-1222 | 1223-1236 | 1237-1250 | 1251-1264 | 1265-1278 | 1279-1292 | 1293-1306 | 1307-1320 | 1321-1334 | 1335-1348 | 1349-1362 | 1363-1376 | 1377-1390 | 1391-1404 | 1405-1418 | 1419-1432 | 1433-1446 | 1447-1460 | 1461-1474 | 1475-1488 | 1489-1502 | 1503-1516 | 1517-1530 | 1531-1544 | 1545-1558 | 1559-1572 | 1573-1586 | 1587-1600 | 1601-1614 | 1615-1628 | 1629-1642 | 1643-1656 | 1657-1670 | 1671-1684 | 1685-1698 | 1699-1712 | 1713-1726 | 1727-1740 | 1741-1754 | 1755-1768 | 1769-1782 | 1783-1796 | 1797-1810 | 1811-1824 | 1825-1838 | 1839-1852 | 1853-1866 | 1867-1880 | 1881-1894 | 1895-1908 | 1909-1922 | 1923-1936 | 1937-1950 | 1951-1964 | 1965-1978 | 1979-1992 | 1993-2006 | 2007-2020 | 2021-2034 | 2035-2048 | 2049-2062 | 2063-2076 | 2077-2090 | 2091-2104 | 2105-2118 | 2119-2132 | 2133-2146 | 2147-2160 | 2161-2174 | 2175-2188 | 2189-2202 | 2203-2216 | 2217-2230 | 2231-2244 | 2245-2258 | 2259-2272 | 2273-2286 | 2287-2300 | 2301-2314 | 2315-2328 | 2329-2342 | 2343-2356 | 2357-2370 | 2371-2384 | 2385-2398 | 2399-2412 | 2413-2426 | 2427-2440 | 2441-2454 | 2455-2468 | 2469-2482 | 2483-2496 | 2497-2510 | 2511-2524 | 2525-2538 | 2539-2552 | 2553-2566 | 2567-2580 | 2581-2594 | 2595-2608 | 2609-2622 | 2623-2636 | 2637-2650 | 2651-2664 | 2665-2678 | 2679-2692 | 2693-2706 | 2707-2720 | 2721-2734 | 2735-2748 | 2749-2762 | 2763-2776 | 2777-2790 | 2791-2804 | 2805-2818 | 2819-2832 | 2833-2846 | 2847-2860 | 2861-2874 | 2875-2888 | 2889-2902 | 2903-2916 | 2917-2930 | 2931-2944 | 2945-2958 | 2959-2972 | 2973-2986 | 2987-3000 | 3001-3014 | 3015-3028 | 3029-3042 | 3043-3056 | 3057-3070 | 3071-3084 | 3085-3098 | 3099-3112 | 3113-3126 | 3127-3140 | 3141-3154 | 3155-3168 | 3169-3182 | 3183-3196 | 3197-3210 | 3211-3224 | 3225-3238 | 3239-3252 | 3253-3266 | 3267-3280 | 3281-3294 | 3295-3308 | 3309-3322 | 3323-3336 | 3337-3350 | 3351-3364 | 3365-3378 | 3379-3392 | 3393-3406 | 3407-3420 | 3421-3434 | 3435-3448 | 3449-3462 | 3463-3476 | 3477-3490 | 3491-3504 | 3505-3518 | 3519-3532 | 3533-3546 | 3547-3560 | 3561-3574 | 3575-3588 | 3589-3602 | 3603-3616 | 3617-3630 | 3631-3644 | 3645-3658 | 3659-3672 | 3673-3686 | 3687-3700 | 3701-3714 | 3715-3728 | 3729-3742 | 3743-3756 | 3757-3770 | 3771-3784 | 3785-3798 | 3799-3812 | 3813-3826 | 3827-3840 | 3841-3854 | 3855-3868 | 3869-3882 | 3883-3896 | 3897-3910 | 3911-3924 | 3925-3938 | 3939-3952 | 3953-3966 | 3967-3980 | 3981-3994 | 3995-4008 | 4009-4022 | 4023-4036 | 4037-4050 |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|

Run 15-6 C1 IO 50 B1 Eng 2 $\alpha=10^\circ$ $\beta=0^\circ$ $m/m^* = .282$ 0.795, 0.817

Pt/Pto 131-144
~~992~~ .999 .997 ~~999~~ .989 .986 .999 .998 .996 .993 .989 .984 .972. .977

Gp 330-344
~~104~~ -.427 -.700 -.561 -.400 .330 -.378 -.746 -.888 -.783 -.668 -.671 -1.468 -.556 -1.093

Pt/Pto 101-130
 .928 .923 .950 .933 1.000 1.000 .990 .956 .961 .936
 1.000 1.000 1.000 .973 .967 .954 1.000 1.000 1.000 .985
 .984 .977 1.000 1.000 1.000 .999 .999 1.000 1.000

Ptc = 14.675 Ptc/Pto = .980 K = .0790

Gp 310-320
~~131~~ .918 .787 .565 .428 .174 -.098 -.162 -.156 -.099 -.061

Gp 321-329
~~100~~ .953 .957 .753 .616 .353 .096 -.048 -.179

Pb 301-309 13.714 13.444 13.563 14.108 14.707 11.909 12.089 12.107 12.096

Pb 201-206 11.826 11.986 12.118 12.019 11.790 11.572

Pb 207-212 10.975 11.062 11.140 11.072 10.963 10.853

Pb 213-224 12.505 10.046 9.700 n.g. 9.686 10.817 10.963 11.156 11.318 12.438 12.437 12.371

Pb 225-236 11.813 n.g. n.g. n.g. 9.665 10.281 10.463 10.692 10.933 ~~11.712~~ 12.234 12.557

Pb 237-245 14.962 14.139 12.478 11.499 11.327 11.824 11.776 11.441 11.421

Pev = 11.885 L = .0372 Peb = 11.011 Ptc/Pev = 1.235 We = 2.02 T = 81. B = 29.99

Run 15-7 C1 IO SO B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $m/m^* = .721$ 0.792, 0.818

Pt/Pto 131-144

~~.992~~ .998 .995 ~~.999~~ .989 .986 .999 .998 .996 .993 .989 .984 ~~.978~~ .977

Cp 330-344

~~.846~~ ~~.521~~ ~~.751~~ ~~.576~~ ~~.425~~ .267 ~~.491~~ ~~.828~~ ~~.920~~ ~~.773~~ ~~.628~~ ~~.615~~ ~~.1431~~ ~~.520~~ ~~.1080~~

Pt/Pto 101-130

.925 .905 .945 .945 1.000 1.000 .992 .930 .960 .943
1.000 1.000 1.000 .945 .964 1.000 1.000 1.000 .961
.975 .959 1.000 1.000 1.000 .989 .995 .997 1.000 1.000

Ptc = 14.605 Ptc/Pto = .976 K = .0971

Cp 310-320

~~.201~~ .872 .679 .475 .350 .123 ~~.083~~ ~~.125~~ ~~.098~~ ~~.060~~ ~~.057~~

Cp 321-329

~~.1196~~ .793 .902 .803 .685 .415 .077 ~~.099~~ ~~.264~~

Ps 301-309 13.444 13.167 13.404 14.048 14.649 11.798 11.975 11.988 12.002

Ps 201-206 11.734 11.887 12.045 11.954 11.705 11.478

Ps 207-212 10.861 10.956 11.061 10.977 10.852 14.738

Ps 213-224 12.820 10.315 ~~.973~~ n.g. 9.696 10.746 10.872 11.055 11.213 12.338 12.337 12.285

Ps 225-236 11.244 n.g. n.g. n.g. 10.117 10.342 10.564 10.784 ~~14.699~~ 12.103 12.447

Ps 237-245 14.962 14.143 12.449 11.415 11.217 11.717 11.661 11.311 11.309

Pev = 11.800 L = .0388 Pcb = 11.574 Ptc/Pev = 1.238 Wc = 2.02 T = 82. \downarrow B = 29.99

Run 15-8 C1 IO SO B1 Eng 2 $\alpha=0^\circ$ $\beta=-4^\circ$ $m/m^* = 7.1$ 0.785, 0.820

Pt/Pto 131-144

~~998~~ .999 ~~999~~ .999 .989 .999 1.000 1.000 .998 .994 .988 ~~974~~ .979

Cp 330-344

~~987~~ -.237 -.553 -.502 -.379 .424 -.209 -.583 -.762 -.711 -.634 -.689 -1.502 -.562 -1.140

Pt/Pto 101-130

.928 .913 .955 .942 .999 1.000 .984 .943 .967 .935
1.000 .999 1.000 .959 .969 1.000 .999 1.000 .974
.981 .989 1.000 1.000 .995 .998 1.000 1.000 1.000

Ptc = 14.663 Ptc/Pto = .980 K = .0887

Cp 310-320

~~123~~ .816 .825 .644 .512 .249 -.070 -.145 -.134 -.099

Cp 321-329

~~1179~~ .953 .917 .757 .619 .350 .130 .009 -.116

Ps 301-309

13.494 13.215 13.493 14.180 10.896 11.894 12.085 12.089 12.103

Ps 201-206

11.846 11.999 12.140 12.043 11.813 11.597

Ps 207-212

11.007 11.096 11.182 11.102 10.993 10.889

Ps 213-224

11.943 9.566 ~~9.687~~ n.g. n.g. 10.795 10.956 11.164 11.336 12.447 12.437 12.375

Ps 225-236

11.780 n.g. n.g. n.g. 9.632 10.295 10.503 10.737 10.974 ~~11.714~~ 12.233 12.549

Ps 237-245

14.958 14.112 12.471 11.510 11.346 11.839 11.792 11.457 11.438

Pcv = 11.906

L = .0370 Pcb = 11.045 Ptc/Pcv = 1.232 Wc = 2.01 T = 83. B = 29.99

Run 15-9 C1 IO SO B1 Eng 2 $\alpha=0^\circ$ $\beta=-10^\circ$ m/m* ~~0.77%~~ 0.77%, 0.81%

Pt/Pto 131-144

~~998~~ .999 .999 ~~999~~ .993 .989 .999 1.000 1.000 .999 .994 .989 ~~974~~ .978

Cp 330-344

~~997~~ -.166 -.526 -.523 -.440 .365 -.243 -.599 -.776 -.728 -.652 -.725 -1.571 -.600 -1.234

Pt/Pto 101-130

.925 .882 .933 .962 1.000 1.000 .980 .891 .947 .951
1.000 1.000 1.000 .902 .957 .966 1.000 .999 1.000 .925
.965 .991 1.000 1.000 .999 .968 .983 .999 1.000 1.000

Ptc = 14.529 Ptc/Pto = .971 K = .1219

Cp 310-320

~~387~~ .655 .694 .526 .410 .166 -.139 -.210 -.224 -.203 -.180

Cp 321-329

~~334~~ .822 .984 .887 .771 .509 .232 .076 -.076

Ps 301-309 13.196 12.829 13.170 13.839 14.550 11.762 11.880 11.913 11.988

Ps 201-206 11.759 11.935 12.061 12.020 11.742 11.523

Ps 207-212 10.929 11.066 11.158 11.013 10.901 10.806

Ps 213-224 11.837 n.g. ~~9.633~~ n.g. n.g. 10.707 10.843 11.054 11.227 12.323 12.296 12.274

Ps 225-236 10.999 n.g. n.g. n.g. 10.108 10.378 10.599 10.779 ~~11.700~~ 12.041 12.390

Ps 237-245 14.960 14.096 12.412 11.412 11.223 11.718 11.654 11.305 11.322

Pcw = 11.840 L = .0370 Pcb = 10.979 Ptc/Pcw = 1.227 Wc = 1.98 T = 83. B = 29.99

Run 15-10 C1 IO SO B1 Eng 2 $\alpha=0^\circ$ $\beta=4^\circ$ $m/m^* = .741$ 0.812, 0.818

Pt/Pto 131-144

~~998~~ 1.000 1.000 ~~1.000~~ .993 .989 .999 .999 .999 .998 .993 .986 ~~.974~~ .979

Cp 330-344

~~0057~~ -.403 -.656 -.542 -.395 .430 -.199 -.575 -.766 -.716 -.636 -.690 -1.520 -.569 -1.112

Pt/Pto 101-130

.927 .959 .942 .932 1.000 1.000 .984 .999 .961 .938
1.000 1.000 1.000 .988 .952 1.000 1.000 1.000 1.000
1.000 .975 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.740 Ptc/Pto = .985 K = .0739

Cp 310-320

~~0088~~ .950 .920 .713 .571 .289 -.058 -.147 -.160 -.128 -.102

Cp 321-329

~~1.006~~ .942 .705 .486 .335 .092 -.030 -.098 -.174

Pa 301-309 14.003 13.874 14.155 14.638 11.125 12.033 12.192 12.210 12.196

Pa 201-206 11.900 12.077 12.151 12.074 11.852 11.641

Pa 207-212 11.060 11.150 11.206 11.157 11.041 10.936

Pa 213-224 12.015 9.681 ~~9.607~~ n.g. 9.666 10.921 11.062 11.256 11.420 12.531 12.542 12.447

Pa 225-236 12.723 10.237 n.g. n.g. 9.992 10.477 10.593 10.781 10.982 ~~14.716~~ 12.451 12.733

Pa 237-245 14.958 14.150 12.533 11.588 11.430 11.923 11.885 11.557 11.517

Pcv = 11.949 L = .0346 Pcb = 11.092 Ptc/Pcv = 1.234 Wc = 2.02 T = 84. B = 29.98

816.

55T-1-519-1

.937

| | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|
| 1.000 | 1.000 | 1.000 | .961 | 1.000 | 1.000 | 1.000 |
| 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 1.000 | .988 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

年

-.230

| | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|
| Pa | 201-206 | 11.914 | 12.085 | 12.179 | 12.081 | 11.857 | 11.652 |
|----|---------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | |
|----------------|---------|--------|-------|------------|-------|--------|--------|--------|--------|--------|--------|--------|
| P _a | 213-224 | 12.038 | 9.800 | 9-695 n.g. | 9.894 | 10.982 | 11.137 | 11.318 | 11.465 | 12.550 | 12.570 | 12.466 |
|----------------|---------|--------|-------|------------|-------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa | 237-245 | 14.955 | 14.178 | 12.560 | 11.605 | 11.444 | 11.944 | 11.907 | 11.586 | 11.534 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

$P_{EV} = 11.961$ $L = .0357$ $P_{EB} = 11.102$ $P_{TC}/P_{EV} = 1.235$ $W_C = 2.03$ $T = 85$ $B = 29.98$

85.

03.

235

Pro

1

2

Run 15-12 C1 I0 S0 H1 Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ $m/m^*=\frac{1}{2}$ 0.817, 0.805

| Pt/Pto 131-144 | .999 | .999 | .992 | .988 | .998 | .998 | .995 | .989 | .983 | .973 | .977 |
|-----------------------|----------------|-----------------|-----------------------|-----------|---------|-----------|--------|--------|-------------------|-----------------|--------------|
| .997 1.000 | | | | | | | | | | | |
| Cp 330-344 | | | | | | | | | | | |
| .993 -.594 | -.789 | -.614 | -.434 | .340 | -.306 | -.679 | -.850 | -.778 | -.731 | -1.592 | -.604 -1.122 |
| Pt/Pto 101-130 | | | | | | | | | | | |
| .921 .968 | .948 | .920 | .999 | 1.000 | .989 | 1.000 | .995 | .935 | | | |
| 1.000 1.000 | 1.000 | 1.000 | 1.000 | .956 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| 1.000 .984 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| Ptc = 14.772 | Ptc/Pto = .987 | K = .0814 | | | | | | | | | |
| Cp 310-320 | | | | | | | | | | | |
| .976 .976 | .901 | .655 | .507 | .220 | -.114 | -.201 | -.209 | -.167 | -.134 | | |
| Cp 321-329 | | | | | | | | | | | |
| .879 .879 | .589 | .336 | .193 | -.014 | -.084 | -.132 | -.183 | | | | |
| Pz 301-309 | 14.328 | 14.223 | 14.412 | 10.861 | 11.331 | 12.041 | 12.184 | 12.219 | 12.216 | | |
| Pz 201-206 | 11.903 | 12.071 | 12.165 | 12.071 | 11.848 | 11.639 | | | | | |
| Pz 207-212 | 11.055 | 11.147 | 11.199 | 11.150 | 11.038 | 10.926 | | | | | |
| Pz 213-224 | 12.286 | 9.986 | 9.618 n.g. | 9.935 | 10.978 | 11.128 | 11.302 | 11.449 | 12.538 | 12.560 | 12.458 |
| Pz 225-236 | 13.207 | 10.837 n.g. | n.g. | 10.183 | 10.664 | 10.721 | 10.856 | 11.022 | 11.707 | 12.509 | 12.831 |
| Pz 237-245 | 14.959 | 14.183 | 12.556 | 11.591 | 11.427 | 11.930 | 11.893 | 11.569 | 11.522 | | |
| Pev = 11.949 | L = .0356 | Feb = 11.086 | Ptc/Pev = 1.236 | Wc = 2.03 | T = 86. | B = 29.98 | | | | | |

Run 15-13 C1 IO SO BI Eng 2 $\alpha=4^\circ$ $\beta=4^\circ$ $m/m^*=2.11$ C.811 . 0.817

Pt/Pto 131-144

~~996~~ 1.000 .999 ~~999~~ .992 .988 .999 .999 .998 .996 .991 .985 ~~973~~ .978

Cp 330-344

~~936~~ -.440 -.692 -.555 -.391 .384 -.285 -.662 -.836 -.764 -.667 -.696 -1.521 -.574 -1.101

Pt/Pto 101-130

.927 .956 .941 .930 1.000 1.000 .987 .998 .958 .936
1.000 1.000 1.000 1.000 .984 .949 1.000 1.000 1.000 1.000
.999 .969 1.000 1.000 1.000 1.000 .999 1.000 1.000 1.000

Ptc = 14.728 Ptc/Pto = .984 K = .0743

Cp 310-320

~~992~~ .972 .893 .664 .524 .245 -.078 -.156 -.159 -.118 -.082

Cp 321-329

~~982~~ .972 .779 .563 .416 .169 .015 -.071 -.165

Ps 301-309 14.014 13.863 14.064 14.518 10.994 12.005 12.178 12.201 12.190

Ps 201-206 11.892 12.069 12.147 12.067 11.845 11.634

Ps 207-212 11.049 11.138 11.195 11.149 11.035 10.928

Ps 213-224 12.239 9.857 ~~9.618~~ n.g. 9.695 10.920 11.049 11.238 11.399 12.519 12.531 12.441

Ps 225-236 12.561 10.065 n.g. n.g. 9.930 10.430 10.556 10.752 10.961 ~~14.715~~ 12.420 12.705

Ps 237-245 14.956 14.167 12.552 11.595 11.429 11.916 11.873 11.548 11.507

Pcv = 11.942 L = .0348 Pcb = 11.082 Ptc/Pcv = 1.233 Wc = 2.01 T = 87. B = 29.98

Run 15-14 C1 IO SO B1 Eng 2 $\alpha=4^\circ$ $\beta=4^\circ$ $m/m^*=.711$ C.803, 0.820

Pt/Pto 131-144

~~.996~~ .999 .999 ~~.999~~ .992 .988 .999 1.000 .999 .997 .992 .987 .974 .978

Cp 330-344

~~.984~~ -.303 -.619 -.541 -.407 .381 -.291 -.659 -.831 -.758 -.662 -.693 -1.501 -.575 -1.146

Pt/Pto 101-130

.929 .908 .954 .943 1.000 1.000 .987 .934 .966 .936
1.000 1.000 1.000 .950 .968 .959 1.000 1.000 .966
.977 .986 1.000 1.000 1.000 .992 .996 1.000 1.000 1.000

Ptc = 14.636 Ptc/Pto = .978 K = .0939

Cp 310-320

~~.128~~ .833 .789 .586 .454 .192 -.102 -.174 -.178 -.142 -.105

Cp 321-329

~~.948~~ .943 .943 .795 .659 .391 .139 .000 -.139

Ps 301-309 13.489 13.185 13.416 14.085 10.780 11.869 12.057 12.063 12.085

Ps 201-206 11.833 11.983 12.129 12.033 11.800 11.583

Ps 207-212 10.987 11.081 11.173 11.083 10.975 10.869

Ps 213-224 12.186 9.754 9.603 n.g. n.g. 10.821 10.946 11.145 11.316 12.425 12.413 12.358

Ps 225-236 11.611 n.g. n.g. n.g. 9.565 10.258 10.481 10.710 10.935 14.708 12.196 12.519

Ps 237-245 14.955 14.110 12.465 11.494 11.324 11.814 11.767 11.431 11.418

Pev = 11.893 L = .0373 Feb = 11.028 Ptc/Pev = 1.231 Wc = 1.99 T = 87. B = 29.98

Run 15-15 C1 IO SO B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ m/m² = ~~471~~ 0.810

Pt/Pto 131-144

~~998~~ 1.000 1.000 ~~1.000~~ .993 .989 .999 1.000 .999 .998 .993 .988 ~~.975~~ .979

Cp 330-344

~~731~~ -.306 -.594 -.508 -.371 .442 -.197 -.570 -.759 -.711 -.631 -.580 -1.502 -.557 -1.114

Pt/Pto 101-130

.928 .935 .949 .938 .999 .999 .984 .977 .963 .938
1.000 1.000 1.000 .990 .976 .957 1.000 1.000 1.000 .997
.994 .981 1.000 1.000 1.000 1.000 .999 1.000 1.000 1.000

Ptc = 14.714 Ptc/Pto = .983 K = .0726

Cp 310-320

~~.092~~ .902 .893 .693 .561 .285 -.049 -.132 -.149 -.118 -.084

Cp 321-329

~~.928~~ .981 .840 .638 .488 .228 .055 -.043 -.146

Ps 301-309 13.853 13.648 13.841 14.392 10.967 11.974 12.160 12.174 12.170

Ps 201-206 11.891 12.050 12.160 12.075 11.848 11.638

Ps 207-212 11.054 11.139 11.206 11.150 11.039 10.935

Ps 213-224 11.984 9.621 -9.590 n.g. 9.556 10.873 11.014 11.218 11.387 12.509 12.509 12.427

Ps 225-236 12.272 9.754 n.g. n.g. 9.805 10.368 10.525 10.749 10.977 14.718 12.349 12.666

Ps 237-245 14.956 14.138 12.527 11.581 11.420 11.904 11.863 11.534 11.500

Pev = 11.945 L = .0355 Peb = 11.087 Ptc/Pev = 1.232 Wc = 2.01 T = 87. B = 29.98

Run 15-16 C1 IO S0 B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^* = .722$ 0.810

Pt/Pto 131-144

1.000 1.000 1.000 .998 .993 .989 .999 1.000 .999 .998 .993 .988 .974 .979

Cp 330-344

~~131~~ -.309 -.597 -.509 -.372 .436 -.200 -.575 -.763 -.712 -.633 -.682 -1.485 -.558 -1.104

Pt/Pto 101-130

.928 .938 .950 .738 1.000 1.000 .983 .977 .964 .938
1.000 1.000 1.000 .990 .977 .957 .939 1.000 1.000 .997
.994 .982 1.000 1.000 1.000 1.000 .999 1.000 1.000

Ptc = 14.683 Ptc/Pto = .984 K = .0730

Cp 310-320

~~101~~ .901 .879 .687 .550 .278 -.054 -.136 -.148 -.121 -.088

Cp 321-329

~~101~~ .971 .822 .631 .481 .221 .049 -.048 -.148

Pa 301-309 13.877 13.678 13.880 14.432 11.005 11.975 12.144 12.153 12.149

Pa 201-206 11.870 12.041 12.137 12.053 11.830 11.609

Pa 207-212 11.042 11.129 11.193 11.144 11.025 10.921

Pa 213-224 12.012 9.661 ~~9.749~~ n.g. 9.592 10.890 11.031 11.229 11.395 12.489 12.490 12.406

Pa 225-236 12.259 9.770 n.g. n.g. 9.878 10.388 10.544 10.760 10.987 14.682 12.334 12.647

Pa 237-245 14.921 14.083 12.464 11.536 11.381 11.887 11.831 11.515 11.488

Pcv = 11.923 L = .0359 Pcb = 11.075 Ptc/Pcv = 1.231 Wc = 2.03 T = 70. B = 29.91

Run 11-7 C1 I0 S0 B0 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $\mu/\mu^*=-.338$ $\mu_c/\mu^*=0.374$

| | | | | | | | | | | | | | | |
|---|-----------|--------------|-------------------|----------|-------------------|-----------|--------|--------|--------|-------------------|--------|--------|-------|-------|
| Pt/Pto 131-144 | | | | | | | | | | | | | | |
| 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Cp 330-344 | | | | | | | | | | | | | | |
| 1.000 | .000 | .000 | -.000 | -.000 | .000 | -.000 | .000 | -.000 | .000 | -.000 | -.000 | -.001 | -.003 | -.003 |
| Pt/Pto 101-130 | | | | | | | | | | | | | | |
| .987 | .975 | .990 | .990 | .999 | 1.000 | .989 | .975 | .994 | .998 | | | | | |
| 1.000 | 1.000 | .994 | .976 | .993 | 1.000 | 1.000 | 1.000 | .997 | .979 | | | | | |
| .991 | 1.000 | 1.000 | 1.000 | .996 | .987 | .993 | 1.000 | 1.000 | 1.000 | | | | | |
| Ptc = 14.470 Ptc/Pto = .993 K = .0257 | | | | | | | | | | | | | | |
| Cp 310-320 | | | | | | | | | | | | | | |
| 1.000 | -.011 | -.005 | -.003 | -.002 | -.001 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 |
| Cp 321-329 | | | | | | | | | | | | | | |
| -.003 | -.006 | -.002 | -.001 | -.001 | -.000 | -.000 | -.000 | -.000 | -.000 | | | | | |
| Pa 301-309 | 13.398 | 13.06 | 13.438 | 13.588 | 13.783 | 14.029 | 13.983 | 13.984 | 14.002 | | | | | |
| Pa 201-206 | 13.985 | 14.021 | 14.047 | 14.019 | 13.962 | 13.927 | | | | | | | | |
| Pa 207-212 | 13.843 | 13.884 | 13.877 | 13.848 | 13.845 | 13.824 | | | | | | | | |
| Pa 213-224 | 12.762 | 13.084 | 11.469 | 13.441 | 13.654 | 13.775 | 13.823 | 13.862 | 13.888 | 14.022 | 14.023 | 14.058 | | |
| Pa 225-236 | 13.485 | 13.558 | 13.605 | 13.698 | 13.707 | 13.709 | 13.714 | 13.719 | 13.726 | 14.562 | 13.993 | 14.069 | | |
| Pa 237-245 | 14.560 | 14.341 | 13.993 | 13.839 | 13.831 | 13.926 | 13.922 | 13.863 | 13.872 | | | | | |
| PeV = 13.993 | L = .0083 | PeB = 13.853 | Ptc/PeV = 1.034 | Mc = .92 | T = 69. | B = 29.63 | | | | | | | | |

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Run 19-1 C1 IO S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^*=0.0611$
(a) $q = 0$

363

[illegible]

Run 20-1 C1 IO S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ m/m*=-.677 0.732

Pt/Pto 131-144

~~1997~~ 1.000 1.000 ~~1.000~~ .993 .989 .999 1.000 .999 .998 .993 .988 ~~1.978~~ .981

Cp 330-344

~~1337~~ -.299 -.577 -.485 -.331 .443 -.184 -.555 -.736 -.679 -.591 -.574 -1.151 -.472 -.860

Pt/Pto 101-130

.961 .960 .956 .951 1.000 1.000 1.000 .996 .967 .956
1.000 1.000 1.000 .999 .986 .969 1.000 1.000 1.000
.999 .988 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.812 Ptc/Pto = .990 K = .0493

Cp 310-320

~~1.083~~ .960 .825 .602 .470 .215 -.077 -.154 -.155 -.126 -.090

Cp 321-329

~~1.772~~ .947 .755 .548 .406 .165 .012 -.067 -.160

Ps 301-309 11.166 11.006 11.276 11.706 12.101 12.670 12.739 12.830 12.858

Ps 201-206 12.664 12.790 12.842 12.791 12.602 12.445

Ps 207-212 12.049 12.107 12.142 12.116 12.051 11.968

Ps 213-224 12.886 10.952 ~~10.553~~ 10.688 11.012 11.871 11.977 12.107 12.215 13.081 13.116 13.055

Ps 225-236 12.956 10.874 9.810 10.058 11.211 11.454 11.565 11.708 11.860 ~~14.723~~ 12.986 13.235

Ps 237-245 13.776 13.776 13.776 13.777 13.776 12.915 12.680 12.400 12.352

Pev = 12.689 L = .0268 Peb = 12.072 Ptc/Pev = 1.167 Wc = 1.88 T = 53. B = 29.99

Run 20-2 C1 IO 51 B1 Eng 2 Cal-4° $\beta=0^\circ$ m/m²=~~.647~~ 0.733

Pt/Pto 131-144

~~999~~ 1.000 1.000 ~~1.000~~ .994 .990 .999 1.000 1.000 .999 .995 .990 ~~999~~ .981

Gp 330-344

~~335~~ -.246 -.524 -.452 -.317 .486 -.099 -.463 -.658 -.624 -.553 -.557 -1.148 -.454 -.858

Pt/Pto 101-130

.959 .964 .956 .952 1.000 1.000 .999 .999 .969 .958
1.000 1.000 1.000 .989 .971 1.000 1.000 1.000 1.000
.999 .991 1.000 1.000 1.000 1.000 .999 1.000 1.000

Ptc = 14.821 Ptc/Pto = .990 K = .0481

Gp 310-320

~~3104~~ .957 .870 .662 .530 .270 -.042 -.129 -.139 -.118 -.094

Gp 321-329

~~32149~~ .927 .692 .483 .334 .096 -.024 -.092 -.165

Ps 301-309 11.195 11.055 11.367 11.807 12.201 12.681 12.746 12.836 12.865

Ps 201-206 12.669 12.798 12.848 12.797 12.606 12.450

Ps 207-212 12.053 12.111 12.148 12.121 12.056 11.972

Ps 213-224 12.686 10.808 ~~10.564~~ 10.635 10.977 11.856 11.975 12.110 12.217 13.088 13.122 13.059

Ps 225-236 13.087 11.012 9.926 10.135 11.251 11.480 11.583 11.720 11.865 ~~11.720~~ 13.012 13.252

Ps 237-245 13.785 13.785 13.785 13.786 13.784 12.920 12.686 12.407 12.356

Pev = 12.695 L = .0268 Feb = 12.077 Ptc/Pev = 1.168 Wc = 1.88 T = 54. B = 29.99

| | | | | | | | | | | | | |
|-----|------|----|----|----|----|-----|---|------------------|-----------------|------|--------|-------|
| Run | 20-3 | Cl | I0 | S1 | B1 | Eog | 2 | $\alpha=4^\circ$ | $\beta=0^\circ$ | m/m* | = .677 | 0.732 |
|-----|------|----|----|----|----|-----|---|------------------|-----------------|------|--------|-------|

| Pt/Pto | 131-144 |
|-----------------|------------------|
| .996 | 1.000 |
| .999 | 1.000 |
| .991 | .988 |
| .999 | .999 |
| 1.000 | .999 |
| .996 | .992 |
| .987 | .987 |
| .977 | .977 |
| .980 | .980 |

CP 330-344
~~327~~ --.353 --.629 --.515 --.344 .399 --.267 --.637 --.804 --.723 --.620 --.579 -1.147 -.481 -.857

| | | | | | | | | |
|--------|---------|-------|-------|-------|-------|-------|-------|-------|
| Pt/Pto | 101-130 | | | | | | | |
| .963 | .956 | .956 | .949 | 1.000 | 1.000 | .992 | .966 | .955 |
| 1.000 | 1.000 | 1.000 | .998 | .982 | .967 | 1.000 | 1.000 | 1.000 |
| .998 | .986 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

$P_{TC} = 14.802$ $P_{TC}/P_{T0} = .989$ $K = .0514$

| |
|--|
| Gp |
| 310-320 |
| --678- |
| .959 .750 .537 .405 .156 -.108 -.174 -.168 -.127 -.087 |

CP 321-329
~~-1-744-~~

| | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa | 301-309 | 11.109 | 10.939 | 11.162 | 11.585 | 11.989 | 12.641 | 12.720 | 12.807 | 12.833 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|
| Pa | 201-206 | 12.638 | 12.772 | 12.826 | 12.769 | 12.578 | 12.420 |
|----|---------|--------|--------|--------|--------|--------|--------|

| | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|
| Pa | 207-212 | 12.017 | 12.076 | 12.115 | 12.082 | 12.019 | 11.938 |
|----|---------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | |
|------------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 213-224 | 13.103 | 11.127 | 10.605 | 10.734 | 11.043 | 11.865 | 11.966 | 12.091 | 12.195 | 13.060 | 13.091 | 13.032 |
|------------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | | |
|----|---------|--------|--------|-------|-------|--------|--------|--------|--------|--------|-------------------|--------|--------|
| Fe | 225-236 | 12.784 | 10.699 | 9.652 | 9.944 | 11.121 | 11.408 | 11.523 | 11.677 | 11.836 | 14.718 | 12.943 | 13.199 |
|----|---------|--------|--------|-------|-------|--------|--------|--------|--------|--------|-------------------|--------|--------|

Pa 237-245 13.766 13.766 13.767 13.765 12.891 12.653 12.369 12.321

$P_{EW} = 12.667$ $L = .0275$ $P_{EB} = 12.041$ $P_{TC}/P_{EV} = 1.169$ $W_C = 1.87$ $T = 56.$ $B = 29.99$

Run 20-4 C1 IO S1 M1 Eng 2 $\alpha=0^\circ$ $\beta=4^\circ$ $m/m^*=-.677$ 0.733

Pt/Pto 131-144

~~998~~ 1.000 .999 ~~999~~ .993 .989 .999 1.000 1.000 .998 .994 .989 ~~977~~ .980

Gp 330-344

~~989~~ -.226 -.541 -.478 -.335 .426 -.201 -.566 -.745 -.687 -.600 -.588 -1.178 -.482 -.901

Pt/Pto 101-130

.957 .943 .963 .954 1.000 1.000 1.000 .967 .973 .952
1.000 1.000 1.000 .978 .967 1.000 1.000 1.000 .990
.991 .990 1.000 1.000 1.000 .999 1.000 1.000 1.000

Ptc = 14.768 Ptc/Pto = .987 K = .0583

Gp 310-320

~~109~~ .899 .764 .565 .437 .186 -.093 -.167 -.167 -.140 -.102

Gp 321-329

~~179~~ .969 .873 .696 .558 .301 .097 -.011 -.132

Ps 301-309 14.661 14.432 10.833 11.478 12.016 12.527 12.627 12.712 12.749

Ps 201-206 12.566 12.684 12.771 12.702 12.503 12.340

Ps 207-212 11.920 11.982 12.033 11.989 11.925 11.842

Ps 213-224 12.802 10.811 ~~10.608~~ 10.496 10.826 11.734 11.847 11.986 12.096 12.986 13.010 12.956

Ps 225-236 12.431 10.298 n.g. 9.741 10.928 11.273 11.421 11.603 11.788 ~~14.716~~ 12.823 13.087

Ps 237-245 13.770 13.771 13.771 13.771 13.770 12.819 12.568 12.271 12.229

Pcv = 12.594 L = .0292 Feb = 11.948 Ptc/Pcv = 1.173 Wc = 1.88 T = 58. B = 29.99

Run 20-5 Cl IO S1 H1 Exg 2 $\alpha=0^\circ$ $\beta=-10^\circ$ $m/m^*=677-0.732$

| | | | | | | | | | | | | | |
|----------------|----------------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|--------|--------|-------|
| Pt/Pto 131-144 | .999 | -.999 | .993 | .989 | .999 | 1.000 | 1.000 | .999 | .994 | .989 | -.976 | .979 | |
| Cp 330-344 | .249 | -.160 | -.511 | -.497 | -.395 | .370 | -.236 | -.584 | -.756 | -.619 | -.630 | -1.262 | -.999 |
| Pt/Pto 101-130 | .947 | .903 | .953 | .974 | 1.000 | 1.000 | .999 | .919 | .965 | .964 | | | |
| | 1.000 | 1.000 | 1.000 | .929 | .973 | .976 | 1.000 | 1.000 | 1.000 | .945 | | | |
| | .979 | .995 | 1.000 | 1.000 | 1.000 | .980 | .993 | 1.000 | 1.000 | 1.000 | | | |
| Ptc = 14.670 | Ptc/Pto = .980 | K = .0934 | | | | | | | | | | | |
| Cp 310-320 | .764 | .677 | .470 | .350 | .112 | -.154 | -.224 | -.231 | -.205 | -.183 | | | |
| Cp 321-329 | -.1707 | .908 | .982 | .852 | .733 | .473 | .210 | .060 | -.093 | | | | |
| Ps 301-309 | 14.105 | 13.655 | 14.337 | 11.174 | 11.852 | 12.353 | 12.408 | 12.517 | 12.597 | | | | |
| Ps 201-206 | 12.426 | 12.542 | 12.648 | 12.605 | 12.366 | 12.193 | | | | | | | |
| Ps 207-212 | 11.754 | 11.844 | 11.908 | 11.816 | 11.752 | 11.673 | | | | | | | |
| Ps 213-224 | 12.616 | 10.566 | 10.584 | 10.220 | 10.586 | 11.546 | 11.667 | 11.818 | 11.934 | 12.830 | 12.846 | 12.820 | |
| Ps 225-236 | 11.596 | n.g. | n.g. | n.g. | 10.651 | 11.100 | 11.278 | 11.436 | 11.575 | 11.702 | 12.607 | 12.898 | |
| Ps 237-245 | 13.755 | 13.756 | 13.756 | 13.755 | 13.755 | 12.669 | 12.391 | 12.071 | 12.049 | | | | |
| Pcv = 12.463 | L = .0310 | Pcb = 11.791 | Ptc/Pcv = 1.177 | Wc = 1.88 | T = 59. | B = 29.99 | | | | | | | |

[illegible]

Run 20-7 C1 IO S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=10^\circ$ $m/m^* = .677$ 0.734

Pt/Pto 131-144

~~998~~ 1.000 1.000 ~~999~~ .993 .989 .998 .999 .997 .986 -.976- .979

Cp 330-344

~~164~~ -.575 -.765 -.607 -.435 .385 -.212 -.580 -.762 -.704 -.623 -.620 -1.252 -.531 -.906

Pt/Pto 101-130

.968 .979 .973 .947 .997 1.000 1.000 1.000 .999 .959
1.000 1.000 1.000 1.000 .976 1.000 1.000 1.000 1.000 1.000
1.000 .995 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.866 Ptc/Pto = .993 K = .0540

Cp 310-320

~~142~~ .989 .823 .579 .440 .173 -.138 -.233 -.243 -.204 -.180

Cp 321-329

~~166~~ .645 .314 .096 -.024 -.190 -.199 -.212 -.244

Ps 301-309 11.471 11.484 11.774 12.197 12.533 12.767 12.803 12.898 12.928

Ps 201-206 12.719 12.847 12.915 12.840 12.652 12.509

Ps 207-212 12.118 12.178 12.211 12.182 12.126 12.043

Ps 213-224 13.018 11.214 ~~10.688~~ 10.990 11.308 12.054 12.139 12.245 12.329 13.142 13.179 13.106

Ps 225-236 13.974 12.179 11.086 10.989 11.571 11.862 11.872 11.934 12.028 14.711 13.114 13.391

Ps 237-245 13.675 13.675 13.674 13.676 13.674 12.965 12.745 12.478 12.424

Pcw = 12.747 L = .0273 Feb = 12.143 Ptc/Pcw = 1.166 Wc = 1.86 T = 62. B = 29.99

Run 20-9 C1 I0 S1 B1 Eng 2 $\alpha=10^\circ$ $\beta=0^\circ$ m/m²=-677 0.732

Pt/Pto 131-144

1.000 1.000 1.000 .999 .996 .992 .999 1.000 1.000 1.000 .997 .991 .979 .982

Cp 330-344

~~123~~ -161 -.428 -.393 -.287 .559 .047 -.301 -.509 -.465 -.505 -1.117 -.407 -.830

Pt/Pto 101-130

.956 .972 .957 .956 1.000 1.000 .999 1.000 .972 .962
1.000 1.000 1.000 .992 .977 1.000 1.000 1.000 1.000
1.000 .994 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.797 Ptc/Pto = .991 K = .0450

Cp 310-320

~~110~~ .951 .947 .749 .628 .368 .026 -.068 -.099 -.092 -.088

Cp 321-329

~~329~~ .859 .583 .357 .204 -.026 -.114 -.160 -.200

Ps 301-309 11.222 11.191 11.507 11.951 12.351 12.734 12.783 12.872 12.900

Ps 201-206 12.713 12.833 12.880 12.832 12.639 12.494

Ps 207-212 12.109 12.167 12.202 12.167 12.113 12.034

Ps 213-224 12.325 10.611 11.012 10.634 10.993 11.893 12.019 12.152 12.264 13.112 13.146 13.082

Ps 225-236 13.280 11.283 10.216 10.378 11.393 11.598 11.679 11.801 11.935 14.675 13.061 13.285

Ps 237-245 13.759 13.762 13.760 13.759 13.760 12.949 12.720 12.456 12.407

Pev = 12.732 L = .0260 Pev = 12.132 Ptc/Pev = 1.162 Wc = 1.82 T = 73. B = 29.91

Run 20-10 C1 IO S1 B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $m/m^*=.677$ 0.732

Pt/Pto 131-144

1.000 1.000 1.000 1.000 .999 .995 1.000 1.000 1.000 1.000 .999 .994 .980 .981

Cp 330-344

~~-.095~~ -.021 -.250 -.270 -.228 .704 .314 .005 -.217 -.264 -.262 -.385 -1.072 -.295 -.775

Pt/Pto 101-130

.947 .972 .958 .958 1.000 1.000 .997 1.000 .975 .968
1.000 1.000 1.000 1.000 .995 .985 1.000 1.000 1.000 1.000
1.000 .998 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.804 Ptc/Pto = .992 K = .0543

Cp 310-320

~~-.178~~ .801 .987 .908 .807 .567 .192 .076 .021 -.004 -.028

Cp 321-329

~~-.320~~ .703 .351 .147 -.007 -.246 -.303 -.313 -.328

Ps 301-309 11.313 11.295 11.631 12.121 12.542 12.772 12.810 12.901 12.929

Ps 201-206 12.749 12.862 12.905 12.859 12.666 12.524

Ps 207-212 12.144 12.201 12.233 12.207 12.148 12.067

Ps 213-224 11.430 10.097 10.910 10.431 11.159 11.852 12.015 12.169 12.286 13.136 13.171 13.108

Ps 225-236 13.477 11.554 10.477 10.566 11.446 11.690 11.752 11.862 11.984 14.661 13.103 13.329

Ps 237-245 13.772 13.775 13.774 13.770 13.773 12.974 12.747 12.487 12.438

Pew = 12.761 L = .0257 Peb = 12.167 Ptc/Pew = 1.160 Wc = 1.81 T = 74. B = 29.91

Run 20-11 C1 IO S1 M1 Eng 2 $\alpha=10^\circ$ $\beta=0^\circ$ $m/m^*=.647$ 0.731

Pt/Pto 131-144

.999 .999 .996 .993 .990 .987 .999 .998 .996 .993 .989 .985 .976 .979

Cp 330-344

~~131~~ -.422 -.688 -.540 -.351 .340 -.370 -.733 -.872 -.754 -.630 -.555 -1.102 -.465 -.828

Pt/Pto 101-130

.967 .955 .958 .948 1.000 1.000 1.000 .981 .969 .955
1.000 1.000 1.000 .990 .967 1.000 1.000 1.000 1.000 .997
.995 .986 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.753 Ptc/Pto = .988 K = .0527

Cp 310-320

~~306~~ .948 .709 .447 .321 .090 -.132 -.183 -.170 -.109 -.064

Cp 321-329

~~328~~ 1.005 .881 .685 .548 .295 .063 -.067 -.197

Ps 301-309 11.065 10.869 11.065 11.525 11.956 12.636 12.708 12.792 12.820

Ps 201-206 12.629 12.754 12.823 12.763 12.568 12.418

Ps 207-212 12.015 12.073 12.117 12.077 12.024 11.941

Ps 213-224 13.379 11.420 ~~10.925~~ 10.899 11.185 11.927 12.004 12.115 12.209 13.038 13.066 13.010

Ps 225-236 12.568 10.546 9.614 9.983 11.148 11.431 11.552 11.712 11.872 14.674 12.898 13.155

Ps 237-245 13.725 13.727 13.723 13.724 13.726 12.872 12.634 12.359 12.316

Pcv = 12.659 L = .0275 Pcb = 12.041 Ptc/Pcv = 1.165 Wc = 1.82 T = 74. B = 29.91

Run 20-12 C1 IO S1 B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ m/m' = ~~677~~ 0.730

Pt/Pto 131-144

.999 .997 .995 .992 .989 .986 .999 .998 .995 .993 .989 .985 .976 .979

Cp 330-344

.056 -.511 -.734 -.547 -.370 .271 -.478 -.813 -.897 -.734 -.588 -.498 -1.077 -.427 -.816

Pt/Pto 101-130

.969 .934 .956 .956 1.000 1.000 1.000 .953 .969 .956
1.000 1.000 1.000 .964 .976 .959 1.000 1.000 .977
.986 .977 .999 1.000 1.000 .996 .998 .999 1.000 1.000

Ptc = 14.690 Ptc/Pto = .984 K = .0669

Cp 310-320

-.181 .865 .587 .355 .241 .040 -.115 -.149 -.112 -.067 -.047

Cp 321-329

-.331 .892 .896 .753 .628 .367 .049 -.118 -.277

Ps 301-309 10.734 14.520 10.797 11.368 11.880 12.552 12.615 12.632 12.727

Ps 201-206 12.546 12.659 12.765 12.697 12.489 12.333

Ps 207-212 11.917 11.973 12.034 11.982 11.925 11.843

Ps 213-224 13.625 11.634 10.977 10.926 11.213 11.875 11.938 12.042 12.129 12.957 12.974 12.932

Ps 225-236 12.050 10.085 n.g. 9.814 11.003 11.338 11.484 11.656 11.822 14.662 12.779 13.046

Ps 237-245 13.664 13.666 13.665 13.663 13.664 12.791 12.537 12.245 12.216

Pev = 12.581 L = .0294 Peb = 11.946 Ptc/Pev = 1.168 Wc = 1.82 T = 75. B = 29.91

Run 21-1 C1 IO SL M1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^* = .711$ 0.816

Pt/Pto 131-144

~~998~~ 1.000 .999 ~~1.000~~ .993 .989 .999 1.000 .999 .998 .993 .988 ~~.974~~ .979

Cp 330-344

~~127~~ ~~-.309~~ -.600 ~~-.512~~ ~~-.376~~ .434 ~~-.202~~ ~~-.577~~ ~~-.764~~ ~~-.715~~ ~~-.635~~ ~~-.686~~ ~~-1.493~~ ~~-.561~~ ~~-1.112~~

Pt/Pto 101-130

.939 .937 .948 .936 1.000 1.000 .999 .979 .961 .943
1.000 1.000 1.000 .992 .975 .960 1.000 1.000 1.000 .998
.994 .986 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.742 Ptc/Pto = .985 K = .0648

Cp 310-320

~~-.096~~ .905 .896 .690 .552 .276 ~~-.053~~ ~~-.138~~ ~~-.146~~ ~~-.120~~ ~~-.089~~

Cp 321-329

~~-1.669~~ .979 .800 .630 .483 .221 .048 ~~-.049~~ ~~-.148~~

Ps 301-309 13.761 13.553 13.802 14.429 11.043 11.862 11.985 12.103 12.143

Ps 201-206 11.855 12.026 12.119 12.046 11.797 11.584

Ps 207-212 11.004 11.089 11.150 11.100 10.987 10.877

Ps 213-224 12.018 9.624 ~~10.324~~ n.g. 9.563 10.809 10.943 11.122 11.270 12.445 12.483 12.407

Ps 225-236 12.261 9.719 n.g. n.g. 9.714 10.270 10.417 10.622 10.843 ~~14.719~~ 12.284 12.625

Ps 237-245 13.400 13.400 13.401 13.402 13.400 12.227 11.912 11.527 11.475

PeV = 11.905 L = .0363 Peb = 11.034 Ptc/PeV = 1.238 We = 2.07 T = 65. B = 29.99

Run 21-2 C1 IO S1 H1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ $m/m^*=711$ 0.814, 0.821

Pt/Pto 131-144

~~999~~ 1.000 1.000 ~~999~~ .994 .990 .999 1.000 1.000 .999 .995 .989 .975 .980

Cp 330-344

.124 -.258 -.544 -.483 -.363 .478 -.114 -.484 -.688 -.661 -.598 -.677 -1.503 -.551 -1.118

Pt/Pto 101-130

.934 .938 .947 .938 .999 1.000 .998 .984 .961 .946
 1.000 1.000 1.000 .996 .978 1.000 1.000 1.000 1.000 .999
 .996 .989 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.750 Ptc/Pto = .985 K = .0667

Cp 310-320

-.118 .885 .929 .746 .611 .334 -.018 -.110 -.131 -.113 -.095

Cp 321-329

-1.660 .950 .775 .569 .415 .154 .005 -.074 -.152

Ps 301-309 13.849 13.674 13.936 14.528 11.114 11.889 12.010 12.132 12.174

Ps 201-206 11.887 12.060 12.141 12.074 11.824 11.614

Ps 207-212 11.041 11.127 11.183 11.137 11.022 10.914

Ps 213-224 11.748 n.g. 10.199 n.g. n.g. 10.799 10.954 11.141 11.291 12.472 12.513 12.433

Ps 225-236 12.395 9.855 n.g. n.g. 9.756 10.307 10.450 10.650 10.865 11.715 12.325 12.660

Ps 237-245 13.404 13.404 13.405 13.406 13.404 12.255 11.944 11.564 11.507

Pcv = 11.934 L = .0357 Pcb = 11.071 Ptc/Pcv = 1.236 Wc = 2.06 T = 66. B = 29.99

Run 21-3 C1 IO S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ $m/m^*=.711$ 0.813, 0.820

Pt/Pto 131-144

~~996~~ 1.000 .999 ~~1.000~~ .992 .988 .999 .999 .999 .996 .992 .986 .973 .978

Cp 330-344

.118 -.363 -.649 -.542 -.391 .394 -.282 -.657 -.831 -.760 -.664 -.694 -1.490 -.570 -1.110

Pt/Pto 101-130

.942 .934 .948 .935 1.000 1.000 .999 .971 .962 .943
1.000 1.000 1.000 .986 .973 .959 1.000 1.000 .995
.992 .983 1.000 1.000 1.000 1.000 1.000 .999 1.000

Ptc = 14.729 Ptc/Pto = .984 K = .0673

Cp 310-320

~~1.101~~ .923 .849 .635 .497 .225 -.081 -.157 -.158 -.122 -.081

Cp 321-329

~~1.658~~ .984 .879 .688 .542 .278 .075 -.038 -.154

Ps 301-309 13.720 13.473 13.690 14.325 10.957 11.852 11.975 12.090 12.129

Ps 201-206 11.845 12.013 12.116 12.039 11.788 11.577

Ps 207-212 10.994 11.079 11.143 11.086 10.979 10.869

Ps 213-224 12.247 9.807 10.150 n.g. 9.615 10.814 10.942 11.116 11.261 12.433 12.468 12.395

Ps 225-236 12.098 9.559 n.g. n.g. 9.660 10.246 10.405 10.615 10.839 ~~11.718~~ 12.256 12.598

Ps 237-245 13.383 13.383 13.384 13.385 13.383 12.215 11.898 11.511 11.461

Pev = 11.896 L = .0366 Peb = 11.025 Ptc/Pev = 1.238 Wc = 2.06 T = 67. B = 29.99

Run 21-4 C1 IO S1 B1 Eng 2 α=0° β=-4° m/m*=-711 0.803, 0.822

Pt/Pto 131-144

~~998~~ 1.000 1.000 ~~993~~ .993 .989 .999 1.000 1.000 .999 .994 .988 ~~.974~~ .979

Cp 330-344

~~.208~~ -.233 -.555 -.501 -.383 .424 -.212 -.582 -.769 -.719 -.641 -.697 -1.514 -.572 -1.150

Pt/Pto 101-130

.933 .916 .956 .943 1.000 1.000 .999 .946 .967 .942
1.000 1.000 1.000 .963 .968 .962 1.000 1.000 1.000 .978
.981 .990 1.000 1.000 1.000 .997 .999 1.000 1.000 1.000

Ptc = 14.687 Ptc/Pto = .981 K = .0860

Cp 310-320

~~.132~~ .844 .848 .649 .517 .248 -.068 -.150 -.157 -.139 -.101

Cp 321-329

~~.152~~ .967 .932 .762 .619 .350 .127 .005 -.119

Pa 301-309 13.356 13.029 13.447 14.265 11.039 11.795 11.926 12.037 12.095

Pa 201-206 11.833 11.988 12.117 12.033 11.781 11.567

Pa 207-212 10.981 11.069 11.153 11.078 10.969 10.859

Pa 213-224 11.955 9.535 ~~9.990~~ n.g. n.g. 10.752 10.892 11.079 11.231 12.398 12.425 12.371

Pa 225-236 11.752 n.g. n.g. n.g. 10.195 10.402 10.631 10.862 ~~14.710~~ 12.177 12.511

Pa 237-245 13.404 13.405 13.405 13.406 13.404 12.190 11.864 11.471 11.433

Pev = 11.887 L = .0374 Peb = 11.018 Ptc/Pcw = 1.236 Wc = 2.05 T = 68. B = 29.99

$P_{ev} = 11.827$ $L = .0374$ $P_{eb} = 10.961$ $P_{tc}/P_{ev} = 1.231$ $W_c = 2.02$ $T = 68.$ $B = 29.99$

Run 21-8 C1 IO S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=4^\circ$ $m/m^*=.711$ $C_{L,2D}=.820$

| | | | | | | | | | | | | | |
|----------------|-------------------|--------------|-------------------|------------|---------|-----------|--------|--------|--------|--------|--------|--------|--------------|
| Pt/Pto | 1.000 | .999 | - .999 | .993 | .989 | .999 | .999 | .999 | .998 | .993 | .987 | .974- | .979 |
| Cp 330-344 | | | | | | | | | | | | | |
| | .022- | -.404 | -.659 | -.544 | -.396 | .427 | -.200 | -.576 | -.766 | -.639 | -.691 | -1.513 | -.572 -1.102 |
| Pt/Pto 101-130 | | | | | | | | | | | | | |
| | .942 | .955 | .940 | .938 | .999 | 1.000 | .999 | .999 | .959 | | .948 | | |
| | 1.000 | 1.000 | 1.000 | 1.000 | .988 | .958 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | |
| | .999 | .982 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | |
| Ptc = 14.773 | | | Ptc/Pto = .987 | K = .0629 | | | | | | | | | |
| Cp 310-320 | | | | | | | | | | | | | |
| | - .696 | .947 | .916 | .704 | .564 | .280 | -.059 | -.152 | -.160 | -.132 | -.105 | | |
| Cp 321-329 | | | | | | | | | | | | | |
| | -1.576- | .929 | .695 | .479 | .328 | .086 | -.036 | -.104 | -.180 | | | | |
| Ps 301-309 | | 14.049 | 13.880 | 14.187 | 14.707 | 11.197 | 11.962 | 12.060 | 12.183 | 12.218 | | | |
| Ps 201-206 | | 11.927 | 12.098 | 12.170 | 12.104 | 11.858 | 11.656 | | | | | | |
| Ps 207-212 | | 11.087 | 11.173 | 11.224 | 11.180 | 11.071 | 10.963 | | | | | | |
| Ps 213-224 | | 12.048 | 9.707 | 9.723 n.g. | | 9.702 | 10.902 | 11.032 | 11.204 | 11.344 | 12.511 | 12.557 | 12.466 |
| Ps 225-236 | | 12.735 | 10.244 n.g. | n.g. | n.g. | 9.966 | 10.427 | 10.536 | 10.707 | 10.897 | 14.718 | 12.431 | 12.733 |
| Ps 237-245 | | 13.341 | 13.339 | 13.343 | 13.342 | 13.340 | 12.291 | 11.988 | 11.615 | 11.553 | | | |
| Pev = 11.969 | L = .0348 | Peb = 11.116 | Ptc/Pev = 1.234 | Wc = 2.05 | T = 71. | B = 29.99 | | | | | | | |

| | | | | | | | | | | | |
|-----------------------|----------------|-----------------|-----------------|-----------|---------|-----------|--------|--------|-------------------|-----------------|--------------|
| Pt/Pto 131-144 | .999 | .999 | .994 | .989 | .998 | .998 | .996 | .991 | .984 | .973 | .978 |
| .998 1.000 | | | | | | | | | | | |
| Cp 330-344 | | | | | | | | | | | |
| .172 -.585 | -.777 | -.629 | -.468 | .379 | -.221 | -.592 | -.783 | -.734 | -.660 | -.728 | -1.584 |
| | | | | | | | | | | | -.612 -1.138 |
| Pt/Pto 101-130 | | | | | | | | | | | |
| .949 .966 | .945 | .929 | .996 | 1.000 | .999 | 1.000 | .996 | .944 | | | |
| .999 1.000 | 1.000 | 1.000 | 1.000 | .965 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| 1.000 .991 | 1.000 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | 1.000 | | | |
| Ptc = 14.809 | Ptc/Pto = .989 | K = .0718 | | | | | | | | | |
| Cp 310-320 | | | | | | | | | | | |
| .156 .925 | .894 | .683 | .536 | .247 | -.109 | -.213 | -.229 | -.198 | -.180 | | |
| Cp 321-329 | | | | | | | | | | | |
| .1607 .769 | .447 | .223 | .077 | -.123 | -.161 | -.191 | -.234 | | | | |
| Ps 301-309 | 14.354 | 14.316 | 14.560 | 11.037 | 11.506 | 12.009 | 12.082 | 12.215 | 12.255 | | |
| Ps 201-206 | 11.952 | 12.120 | 12.210 | 12.120 | 11.877 | 11.683 | | | | | |
| Ps 207-212 | 11.120 | 11.208 | 11.256 | 11.213 | 11.104 | 10.996 | | | | | |
| Ps 213-224 | 12.086 | 9.855 | 9.770 n.g. | 9.974 | 10.990 | 11.129 | 11.286 | 11.410 | 12.543 | 12.594 | 12.495 |
| Ps 225-236 | 13.374 | 11.043 n.g. | n.g. | 10.257 | 10.709 | 10.739 | 10.847 | 10.990 | 14.706 | 12.513 | 12.861 |
| Ps 237-245 | 13.258 | 13.258 | 13.259 | 13.258 | 13.256 | 12.317 | 12.023 | 11.660 | 11.594 | | |
| Pev = 11.994 | L = .0356 | Feb = 11.150 | Ptc/Pev = 1.235 | Wc = 2.06 | T = 70. | B = 29.99 | | | | | |

Run 21-9 C1 IO S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^*=0.711$ 0.811, 0.820

Pt/Pto 131-144

~~996~~ 1.000 1.000 ~~1.000~~ .993 .989 .999 1.000 .999 .998 .993 .988 ~~.974~~ .979

Cp 330-344

~~347~~ -.306 -.596 -.512 -.376 .435 -.197 -.573 -.765 -.712 -.634 -.684 -1.493 -.561 -1.112

Pt/Pto 101-130

.938 .936 .947 .937 1.000 1.000 .999 .979 .961 .944
1.000 1.000 .992 .975 .961 1.000 1.000 .998
.994 .986 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.737 Ptc/Pto = .985 K = .0653

Cp 310-320

~~.092~~ .903 .894 .691 .554 .279 -.053 -.136 -.145 -.122 -.090

Cp 321-329

~~1.567~~ .972 .833 .630 .482 .221 .046 -.047 -.148

Ps 301-309 13.772 13.566 13.804 14.425 11.039 11.870 11.996 12.114 12.155

Ps 201-206 11.872 12.040 12.135 12.060 11.809 11.603

Ps 207-212 11.022 11.109 11.168 11.118 11.006 10.899

Ps 213-224 12.006 9.619 -9.671 n.g. 9.539 10.824 10.953 11.131 11.278 12.455 12.492 12.415

Ps 225-236 12.257 9.718 n.g. n.g. 9.743 10.276 10.425 10.634 10.854 ~~14.714~~ 12.294 12.634

Ps 237-245 13.378 13.378 13.379 13.380 13.377 12.238 11.924 11.542 11.489

Pcv = 11.920 L = .0361 Pcb = 11.054 Ptc/Pcv = 1.236 Wc = 2.05 T = 71. B = 29.98

Run 21-10 C1 IO S1 B1 Eng 2 $\alpha = -10^\circ$ $\beta = 0^\circ$ $m/m^* = .711$ 0.821

Pt/Pto 131-144

.999 1.000 1.000 .999 .996 .992 .999 1.000 1.000 .999 .997 .991 .976 .980

Cp 330-344

.999 .992 .999 1.000 1.000 .999 .996 .992 .999 1.000 1.000 .999 .997 .991 .976 .980

Pt/Pto 101-130

.932 .950 .946 .941 1.000 1.000 .997 .996 .960 .950
1.000 1.000 1.000 .999 .983 .968 1.000 1.000 1.000 1.000
.999 .992 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.733 Ptc/Pto = .987 K = .0684

Cp 310-320

.816 .960 .822 .700 .428 .051 -.052 -.086 -.087 -.084

Cp 321-329

.894 .658 .449 .289 .031 -.081 -.139 -.187

Ps 301-309 14.041 13.905 14.192 10.754 11.285 11.937 12.036 12.161 12.202

Ps 201-206 11.920 12.092 12.161 12.104 11.856 11.648

Ps 207-212 11.096 11.181 11.232 11.192 11.076 10.972

Ps 213-224 11.316 n.g. 10.887 n.g. 9.518 10.838 10.998 11.187 11.336 12.497 12.538 12.455

Ps 225-236 12.587 10.098 n.g. n.g. 9.920 10.410 10.529 10.710 10.910 14.669 12.381 12.692

Ps 237-245 13.376 13.384 13.381 13.376 13.378 12.282 11.978 11.610 11.551

Pcw = 11.964 L = .0348 Peb = 11.125 Ptc/Pcw = 1.232 Wc = 2.06 T = 62. B = 29.91

Run 21-11 C1 IO S1 B1 Eng 2 $\alpha = -20^\circ$ $\beta = 0^\circ$ $m/m^* = .711$ 0.821

Pt/Pto 131-144

1.000 1.000 1.000 1.000 .998 .994 .999 1.000 1.000 1.000 .999 .994 .977 .980

Cp 33C-344

.085 -.031 -.264 -.292 -.263 .686 .297 -.014 -.241 -.302 -.303 -.498 -1.404 -.382 -1.018

Pt/Pto 101-130

.924 .956 .945 .944 .999 1.000 .994 1.000 .960 .955
1.000 1.000 1.000 1.000 .987 .975 1.000 1.000 1.000 1.000
1.000 .995 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.744 Ptc/Pto = .988 K = .0769

Cp 310-320

-.211 .585 .985 .938 .848 .510 .201 .086 .029 -.004 -.032

Cp 321-329

-.427 .730 .466 .239 .076 -.192 -.274 -.290 -.315

Ps 301-309 14.069 13.996 14.355 10.932 11.487 11.986 12.061 12.187 12.227

Ps 201-206 11.952 12.116 12.173 12.123 11.875 11.669

Ps 207-212 11.119 11.204 11.255 11.219 11.101 10.998

Ps 213-224 10.361 n.g. -10.616 n.g. 9.543 10.785 10.985 11.189 11.348 12.514 12.561 12.475

Ps 225-236 12.786 10.348 n.g. n.g. 9.974 10.473 10.578 10.748 10.933 14.654 12.440 12.740

Ps 237-245 13.385 13.392 13.389 13.385 13.387 12.302 12.002 11.637 11.577

Pcv = 11.985 L = .0342 Pcb = 11.149 Ptc/Pcv = 1.230 Wc = 2.05 T = 63. B = 29.91

Run 21-12 C1 10 S1 B1 Eng 2 $\alpha=10^\circ$ $\beta=0^\circ$ m/m²=.711 0.816

Pt/Pto 131-144

.999 .999 .997 .994 .990 .986 .999 .999 .996 .993 .989 .984 .972 .977

Cp 330-344

.104 -.433 -.706 -.566 -.402 .333 -.382 -.760 -.896 -.788 -.673 -.671 -.1434 -.555 -1.078

Pt/Pto 101-130

.949 .927 .950 .935 .999 1.000 1.000 .960 .961 .943
1.000 1.000 1.000 .975 .968 .958 1.000 1.000 .988
.986 .981 1.000 1.000 1.000 .999 .999 1.000 1.000 1.000

Ptc = 14.668 Ptc/Pto = .983 K = .0742

Cp 310-320

-.136 .896 .791 .550 .417 .157 -.107 -.167 -.160 -.104 -.064

Cp 321-329

-.422 .967 .910 .748 .609 .346 .089 -.052 -.189

Ps 301-309 13.670 13.375 13.591 14.254 10.911 11.838 11.943 12.053 12.095

Ps 201-206 11.822 11.984 12.105 12.022 11.768 11.556

Ps 207-212 10.978 11.065 11.138 11.071 10.969 10.858

Ps 213-224 12.568 10.130 10.499 n.g. 9.779 10.848 10.966 1.128 11.260 12.395 12.426 12.362

Ps 225-236 11.832 n.g. n.g. n.g. 9.721 10.275 10.431 10.640 10.865 14.668 12.191 12.527

Ps 237-245 13.312 13.318 13.315 13.312 13.314 12.180 11.860 11.478 11.436

Pev = 11.876 L = .0374 Peb = 11.013 Ptc/Pev = 1.235 Wc = 2.05 T = 65. B = 29.91

Run 21-13 C1 IO S1 B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $m/m^*=.711$ 0.809, 0.817

Pt/Pto 131-144
 .999 .998 .996 .993 .989 .986 .999 .998 .996 .993 .989 .984 .973 .978

Cp 330-344
 .948 -.524 -.755 -.579 -.427 .268 -.491 -.834 -.926 -.771 -.634 -.612 -1.413 -.519 -1.069

Pt/Pto 101-130
 .951 .909 .945 .948 1.000 1.000 1.000 .934 .960 .947
 1.000 1.000 1.000 .949 .965 .947 1.000 1.000 1.000 .965
 .977 .964 1.000 1.000 .999 .992 .997 .998 1.000 1.000

Ptc = 14.603 Ptc/Pto = .978 K = .0934

Cp 310-320
 .198 .894 .705 .468 .342 .111 -.088 -.130 -.102 -.067 -.050

Cp 321-329
 .326 .828 .920 .802 .681 .412 .055 -.106 -.269

Ps 301-309 13.366 13.050 13.465 14.237 10.884 11.743 11.830 11.939 11.994

Ps 201-206 11.723 11.876 12.026 11.949 11.680 11.457

Ps 207-212 10.858 10.950 11.051 10.968 10.849 10.740

Ps 213-224 12.864 10.380 -10.430 n.g. 9.809 10.733 10.869 11.025 11.155 12.297 12.322 12.270

Ps 225-236 11.244 n.g. n.g. n.g. 10.109 10.311 10.516 10.724 14.655 12.061 12.411

Ps 237-245 13.218 13.224 13.221 13.215 13.219 12.083 11.742 11.347 11.318

Pev = 11.785 L = .0390 Peb = 10.903 Ptc/Pev = 1.239 We = 2.05 T = 67. B = 29.91

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(a) Cl Il $S\hat{U}$ $B1$; $q = 33.3$

[illegible]

| | | | | | | | |
|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| Pt/Pto 131-144 | | | | | | | |
| 1.000 | .997 | 1.000 | .999 | 1.000 | .993 | 1.000 | .984 |
| 1.000 | .999 | 1.000 | .999 | 1.000 | .993 | 1.000 | .984 |

CP 330-344

| |
|--|
| Pt/Pto |
| 101-130 |
| .985 .987 .976 1.000 1.000 1.000 1.000 1.000 1.000 |
| 1.000 .999 1.000 1.000 .986 1.000 1.000 1.000 1.000 |
| 1.000 .997 1.000 1.000 1.000 1.000 1.000 1.000 1.000 |
| .982 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 |

Ptc = 14.889 Ptc/Pto = .997 K = .0238

| |
|---|
| Cp |
| 310-320 |
| .724 .391 .161 .672 -.128 -.147 -.151 -.122 -.090 |
| .992 |

Cp 321-329

| | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ps 301-309 | 13.645 | 13.412 | 13.715 | 13.845 | 13.975 | 14.039 | 14.044 | 14.055 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | |
|---------|--------|--------|--------|--------|--------|--------|
| 201-206 | 13.962 | 13.994 | 14.032 | 13.985 | 13.835 | 13.844 |
|---------|--------|--------|--------|--------|--------|--------|

Ps 207-212 13.698 13.724 13.741 13.733 13.703 13.566

Ps 213-224 14.674 13.753 13.463 13.323 13.374 13.555 13.741 13.774 13.765 14.143 ~~14.172~~ 14.109

| | | | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|
| Ps 225-236 | 14.710 | 14.055 | 13.360 | 13.152 | 13.093 | 13.244 | 13.513 | 13.504 | 13.363 | 14.140 | 14.266 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|

Ps 237-245 14.936 14.623 14.072 13.791 13.741 14.063 13.959 13.628 13.816

$P_{ew} = 13.742$ $L = .0134$ $P_{eb} = 13.711$ $P_{tc}/P_{cw} = 1.068$ $w_c = 1.32$ $T = 54.$ $B = 29.93$

Run 7-2 C1 I1 S0 B1 Eng 2 $\alpha = -4^\circ$ $\beta = 0^\circ$ $m/m^* = .474$ 0.512

Pt/Pto 121-144

~~.998~~ 1.000 1.000 ~~1.000~~ .994 .991 1.000 1.000 1.000 .999 .995 .991 ~~.984~~ .984

Cp 330-344

~~.605~~ -.228 -.483 -.395 -.213 .502 -.072 -.420 -.597 -.541 ~~.449~~ -.290 -.465 -.242 -.326

Pt/Pto 101-130

.984 .990 .985 .976 1.000 1.000 1.000 1.000 1.000 .985
1.000 1.000 1.000 1.000 .991 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.893 Ptc/ito = .997 K = .0239

Cp 310-320

1.010 .807 .485 .271 .153 -.003 -.134 -.123 -.137 -.119 -.094

Cp 321-329

.544 .295 .111 .052 -.070 -.140 -.122 -.155

Ps 301-309 13.929 13.478 13.781 13.895 13.936 13.975 14.045 14.049 14.060

Ps 201-206 13.971 14.001 14.039 13.996 13.841 13.852

Ps 207-212 13.707 13.733 13.745 13.740 13.713 13.675

Ps 213-224 14.601 13.664 13.415 13.294 13.357 13.377 13.744 13.776 13.792 14.151 ~~14.159~~ 14.116

Ps 225-235 14.754 14.137 13.440 13.217 13.140 13.289 13.566 ~~14.467~~ 13.624 13.973 14.148 14.274

Ps 237-245 14.939 14.622 14.076 13.800 13.747 14.060 13.965 13.835 13.825

Pcw = 13.950 L = .0133 Pco = 13.719 Ptc/Pcw = 1.068 $\alpha_c = 1.31$ T = 56. B = 29.93

Run 7-3 C1 I1 S0 B1 Eng 2 $\alpha = -10^\circ$ $\beta = 0^\circ$ $m/m^* = .474$ 0.510

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ .996 .993 1.000 1.000 1.000 1.000 .997 .993 ~~.985~~ .984

Cp 330-344

~~1.000~~ -.152 -.388 -.342 -.198 .572 .073 -.264 -.453 -.432 ~~-.367~~ -.253 -.457 -.406 -.323

Pt/Pto 101-130

.982 .991 .986 .979 1.000 1.000 1.000 1.000 1.000 .990
1.000 1.000 1.000 1.000 .998 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.302 Ptc/Pto = .997 K = .0213

Cp 310-320

1.017 .929 .633 .428 .302 .069 -.062 -.038 -.097 -.097 -.086

Cp 321-329

.863 .553 .155 -.032 -.076 -.187 -.227 -.190 -.192

Ps 301-309 14.309 13.603 13.870 13.947 13.986 13.999 14.054 14.060 14.074

Ps 201-206 13.988 14.016 14.052 14.014 13.857 13.869

Ps 207-212 13.725 13.750 13.769 13.760 13.733 13.695

Ps 213-224 14.445 13.497 13.291 13.226 13.313 13.617 13.741 13.782 13.799 14.163 ~~14.166~~ 14.129

Ps 225-236 14.800 14.239 13.546 13.306 13.208 13.348 13.587 ~~14.463~~ 13.650 13.928 14.161 ~~14.289~~

Ps 237-245 14.939 14.634 14.096 13.822 13.769 14.071 13.982 13.854 13.842

Pcw = 13.966 L = .0131 Feb = 13.739 Ptc/Pcw = 1.067 Wc = 1.30 T = 58. B = 29.94

Run 7-4 C1 I. SO Bl Eng 2 $\alpha = -20^\circ$ $\beta = C^\circ$ $m/m^* = .474$ 0.511

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ .999 .995 1.000 1.000 1.000 1.000 .999 .995 ~~-.988~~ .984

Cp 330-344

~~-.696~~ -.013 -.212 -.220 -.152 .708 .335 .045 -.158 -.189 ~~-.165~~ -.137 -.417 -.100 -.269

Pt/Pto 101-130

.979 .990 .991 .982 1.000 1.000 .999 1.000 1.000 1.000 .990
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
1.000 1.000 1.000 .999 1.000 1.000 1.000 1.000 1.000

Ptc = 14.912 Ptc/Pto = .978 K = .0215

Cp 310-320

.809 .971 .823 .675 .551 .311 .098 .071 .009 -.005 -.027

Cp 321-329

.661 .315 -.070 -.256 -.287 -.377 -.405 -.341 -.311

Ps 301-309 14.516 13.748 13.955 14.013 14.035 14.019 14.060 14.065 14.074

Ps 201-206 14.002 14.030 14.063 14.028 13.871 13.884

Ps 207-212 13.742 13.766 13.783 13.776 13.748 13.710

Ps 213-224 14.000 13.172 13.051 13.089 13.210 13.634 13.720 13.773 13.798 14.174 ~~14.173~~ 14.139

Ps 225-236 14.834 14.356 13.675 13.413 13.283 13.423 13.506 ~~14.149~~ 13.578 14.004 14.176 ~~14.302~~

Ps 237-245 14.944 14.645 14.115 13.843 13.788 14.083 13.997 13.870 13.857

Pcv = 13.980 L = .0128 Feb = 13.754 Ptc/Pcv = 1.067 Wc = 1.30 T = 64. B = 29.94

Run 7-5 Cl I1 SO B1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ $m/m^*=.474$ 0.510

Pt/Pto 131-144

| | | | | | | | | | |
|------|------|------|-------|------|------|------|------|-----------------|------|
| .998 | .992 | .989 | 1.000 | .998 | .996 | .992 | .988 | .984 | .984 |
|------|------|------|-------|------|------|------|------|-----------------|------|

Cp 330-344

| | | | | | | | | | | | | |
|--------|-------|-------|------|-------|-------|-------|-------|------------------|-------|-------|-------|-------|
| - .579 | -.442 | -.218 | .415 | -.236 | -.587 | -.735 | -.630 | -.507 | -.300 | -.439 | -.249 | -.298 |
|--------|-------|-------|------|-------|-------|-------|-------|------------------|-------|-------|-------|-------|

Pt/Pto 101-130

| | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|
| .986 | .990 | .988 | .976 | 1.000 | 1.000 | 1.000 | 1.000 | .981 |
| .000 | 1.000 | 1.000 | 1.000 | 1.000 | .984 | 1.000 | 1.000 | 1.000 |
| .000 | .993 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

$P_{TC} = 14.889$ $P_{TC}/P_{TO} = .996$ $K = .0245$

CP 310-320

| | | | | | | | | | | |
|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| .913 | .591 | .260 | .088 | -.016 | -.195 | -.191 | -.166 | -.159 | -.121 | -.081 |
|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|

Cp 321-329

| | | | | | | | | |
|-------|------|------|------|------|------|-------|-------|-------|
| 1.001 | .798 | .463 | .280 | .208 | .043 | -.064 | -.088 | -.143 |
|-------|------|------|------|------|------|-------|-------|-------|

Pa 301-309 13.581 13.375 13.670 13.815 13.898 13.986 14.054 14.057 14.069

Pr 201-206 13.986 14.017 14.053 14.008 13.859 13.869

Pa 207-212 13.726 13.750 13.758 13.761 13.732 13.695

| | | | | | | | | | | | | |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|-------------------|
| P ₈ | 213-224 | 14.745 | 13.872 | 13.587 | 13.407 | 13.433 | 13.575 | 13.770 | 13.803 | 13.810 | 14.162 | 14.124 |
| P ₉ | | | | | | | | | | | 14.170 | 14.170 |

| | | | | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|--------|--------|-------------------|
| Ps | 225-236 | 14.668 | 13.992 | 13.313 | 13.125 | 13.089 | 13.237 | 13.556 | 14.447 | 13.622 | 13.981 | 14.157 | 14.280 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|--------|--------|-------------------|

Ps 237-245 14.943 14.641 14.102 13.823 13.770 14.071 13.982 13.855 13.843

$P_{ew} = 13.965$ $L = .0130$ $P_{eb} = 13.739$ $P_{tc}/P_{ew} = 1.066$ $W_c = 1.29$ $T = 66.$ $B = 29.94$

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Run 7-6 C1 I1 S0 B1 Eng 2 $\alpha=10^\circ$ $\beta=0^\circ$ $m/m^*=.474$ 0.511

Pt/Pto 131-144
~~.998~~ .998 .995 ~~.999~~ .990 .988 .999 .998 .995 .993 .990 .986 ~~.984~~ .983

Cp 330-344
~~.931~~ -.394 -.634 -.464 -.221 .355 -.336 -.681 -.798 -.663 ~~.518~~ -.287 -.430 -.242 -.290

Pt/Pto 101-130
 .986 .989 .972 1.000 1.000 1.000 1.000 .979
 1.000 1.000 1.000 1.000 .983 1.000 1.000 1.000
 1.000 .990 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.887 Ptc/Pto = .996 K = .0280

Cp 310-320
 .830 .456 .136 -.022 -.111 -.266 -.208 -.175 -.152 -.107 -.061

Cp 321-329
 .983 .882 .606 .400 .316 .122 -.035 -.094 -.181

Ps 301-309 13.544 13.314 13.569 13.737 13.848 13.971 14.034 14.037 14.052

Ps 201-206 13.967 13.995 14.034 13.990 13.839 13.849

Ps 207-212 13.702 13.727 13.745 13.737 13.709 13.671

Ps 213-224 14.816 13.965 13.656 13.435 13.441 13.585 13.754 13.788 13.793 14.145 ~~14.147~~ 14.115

Ps 225-236 14.538 13.795 13.141 12.983 12.989 13.126 13.503 ~~14.478~~ 13.583 13.960 14.140 ~~14.261~~

Ps 237-245 14.943 14.631 14.080 13.797 13.743 14.054 13.963 13.834 13.822

Pew = 13.946 L = .0131 Peb = 13.715 Ptc/Pew = 1.068 Mc = 1.29 T = 68. B = 29.94

Run 7-7 C1 I1 S0 B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $m/m' = .474$ 0.519

Pt/Pto 131-144

~~.771~~ .776 .973 ~~.998~~ .989 .987 .938 .996 .993 .991 .989 .985 .983 .963

Cp 330-344

~~.083~~ -.477 - .677 -.471 -.228 .294 -.436 -.756 -.825 -.646 ~~.431~~ -.245 -.414 -.211 -.287

Pt/Pto 101-130

.988 .989 .977 .971 1.000 1.000 1.000 1.000 .986 .979
1.000 1.000 1.000 .993 .988 1.000 1.000 1.000 1.000 1.000
.999 .995 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.875 Ptc/Pto = .995 K = .022

Cp 310-320

.634 .635 -.613 -.129 -.124 -.366 -.193 -.138 -.126 -.069 -.043

Cp 321-329

.845 .937 .721 .546 .443 .215 -.022 -.127 -.239

Ps 301-309 15.614 13.272 13.379 13.545 13.702 13.953 14.015 14.023 14.039

Ps 201-206 13.950 13.980 14.014 13.977 13.821 13.832

Ps 207-212 13.384 13.710 13.727 13.715 13.689 13.653

Ps 213-224 14.868 14.076 13.742 13.486 13.461 13.611 13.740 13.783 13.793 14.131 ~~14.128~~ 14.100

Ps 225-236 14.274 13.483 12.693 12.600 12.872 13.016 13.450 ~~14.447~~ 13.556 13.952 14.113 14.21

Ps 237-245 14.943 14.627 14.067 13.781 13.724 14.042 13.945 13.815 13.903

Pev = 13.929 L = .0130 Pev = 13.677 Ptc/Pev = 1.068 We = 1.29 T = 71. B = 29.94

Run 7-8 C1 I1 S0 B1 Eng 2 $\alpha=0^\circ$ $\beta=-4^\circ$ $m/m^* = .474$ 0.512

| | | | | | | | | | | | |
|----------------|-----------------|------------------|-----------------|-----------|---------|-----------|--------|-------------------|--------|-----------------|--------|
| Pt/Pto 131-144 | .999 | 1.000 | .993 | .990 | 1.000 | 1.000 | .998 | .994 | .990 | .984 | .984 |
| Cp 330-344 | .999 | .999 | .993 | .990 | 1.000 | 1.000 | .998 | .994 | .990 | .984 | .984 |
| Pt/Pto 101-130 | .983 | .987 | .978 | 1.000 | 1.000 | 1.000 | .993 | .983 | | | |
| | 1.000 | 1.000 | 1.000 | .987 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| | 1.000 | .995 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| Ptc = 14.893 | Ptc/Pto = .996 | K = .021 | | | | | | | | | |
| Cp 310-320 | .939 | .694 | .392 | .184 | .073 | -.130 | -.181 | -.167 | -.161 | -.134 | -.103 |
| Cp 321-329 | .983 | .939 | .610 | .417 | .325 | .136 | -.003 | -.037 | -.108 | | |
| Ps 301-307 | 13.462 | 13.234 | 13.530 | 13.700 | 13.814 | 13.953 | 14.024 | 14.028 | 14.048 | | |
| Ps 201-206 | 13.966 | 13.994 | 14.023 | 13.985 | 13.830 | 13.341 | | | | | |
| Ps 207-212 | 13.687 | 13.720 | 13.738 | 13.756 | 13.700 | 13.663 | | | | | |
| Ps 213-224 | 14.642 | 13.573 | 13.396 | 13.240 | 13.294 | 13.511 | 13.693 | 13.732 | 13.749 | 14.142 | 14.110 |
| Ps 225-236 | 14.430 | 13.700 | 13.012 | 12.855 | 12.877 | 13.012 | 13.439 | 14.461 | 13.544 | 13.951 | 14.128 |
| Ps 237-245 | 14.947 | 14.654 | 14.111 | 13.822 | 13.757 | 14.060 | 13.961 | 13.828 | 13.815 | | |
| Pcw = 13.940 | L = .0129 | Feb = 13.706 | Ptc/Pcw = 1.068 | Wc = 1.30 | T = 73. | B = 29.95 | | | | | |

Run 7-9 C1 I1 S0 B1 Eng 2 $\alpha=0^\circ$ $\beta=-10^\circ$ $m/m^* = .474$ 0.510

Pt/Pto 131-144

~~.997~~ .999 ~~.992~~ .933 .990 1.000 1.000 1.000 .999 .995 .991 ~~.984~~ .983

Cp 330-344

~~.937~~ -.134 -.456 -.418 -.243 .387 -.201 -.533 -.689 -.614 ~~.589~~ -.351 -.544 -.279 -.395

Pt/Pto 161-130

.979 .969 .985 .984 1.000 1.000 1.000 .976 .971 .985
1.000 1.000 1.000 .983 .991 .986 1.000 1.000 .991
.995 .994 1.000 1.000 1.000 .999 1.000 1.000 1.000 1.000

Ptc = 14.853 Ptc/Pto = .994 K = .0317

Cp 310-320

.837 .636 .320 .150 .040 -.169 -.246 -.242 -.238 -.203 -.178

Cp 321-329

.728 .995 .842 .670 .565 .331 .116 .033 -.065

Ps 301-309 13.135 12.914 13.267 13.484 13.641 13.874 13.948 13.948 13.975

Ps 201-206 13.908 13.947 13.972 13.933 13.768 13.777

Ps 207-212 13.621 13.650 13.670 13.657 13.628 13.590

Ps 213-224 14.550 13.517 13.231 13.070 13.131 13.423 13.579 13.626 13.649 14.072 14.078 14.051

Ps 225-236 14.017 13.141 12.593 12.600 12.733 12.990 13.177 14.463 13.394 13.813 14.003 14.119

Ps 237-245 14.949 14.644 14.076 13.766 13.690 14.011 13.889 13.745 13.737

Pcw = 13.884 L = .0137 Peb = 13.636 Ptc/Pcw = 1.070 Wc = 1.30 T = 75. B = 29.95

Run 7-10 C1 I1 SO B1 Eng 2 $\alpha=0^\circ$ $\beta=4^\circ$ $m/m^* = .474$ 0.513

Pt/Pto 131-144

~~.927~~ 1.000 1.000 1.000 .933 .990 1.000 1.000 .999 .977 .993 .989 .985 .984

Cp 330-344

~~.911~~ -.371 -.594 -.454 -.243 .454 -.155 -.507 -.671 -.594 ~~.481~~ -.293 -.460 -.256 -.315

Pt/Pto 101-130

.986 .994 .991 .975 1.000 1.000 1.000 1.000 1.000 .987
1.000 1.000 1.000 1.000 .997 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.913 Ptc/Pto = .998 K = .0249

Cp 310-320

.974 .670 .339 .149 .038 -.155 -.171 -.148 -.168 -.128 -.099

Cp 321-329

.842 .463 .093 -.040 -.073 -.167 -.189 -.150 -.168

Ps 301-309 14.326 13.692 13.931 13.999 14.028 14.039 14.094 14.105

Ps 201-206 14.009 14.036 14.074 14.037 13.864 13.896

Ps 207-212 13.755 13.780 13.798 13.789 13.762 13.726

Ps 213-224 14.733 13.885 13.630 13.483 13.521 13.635 13.846 13.872 14.186 ~~14.189~~ 14.152

Ps 225-236 14.859 14.383 13.738 13.499 13.376 13.509 13.641 ~~14.491~~ 13.733 14.027 14.191 ~~14.313~~

Ps 237-245 14.943 14.616 14.076 13.816 13.778 14.070 14.004 13.883 13.871

Pcw = 13.989 L = .0127 Pcb = 13.758 Ptc/Pcw = 1.066 Wc = 1.28 T = 75. B = 29.95

Run 7-11 C1 I1 SO B1 Eng 2 $\alpha=0^\circ$ $\beta=10^\circ$ $m/m^2=.474$ 0.512

Pt/Pto 131-144

~~.997~~ 1.000 1.000 ~~1.000~~ .993 .790 .999 .999 .998 ~~.997~~ .992 .985 ~~.984~~ .983

Cp 330-344

~~.997~~ -.556 -.721 -.550 -.347 .406 -.179 -.529 -.589 -.617 -.513 -.348 -.571 -.323 -.402

Pt/Pto 101-130

.986 .996 .979 1.000 1.000 1.000 1.000 1.000 1.000 .994
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 .999

Ptc = 14.924 Ptc/Pto = .998 K = .0208

Cp 310-320

.912 .656 .308 .110 -.006 -.201 -.217 -.192 -.243 -.197 -.176

Cp 321-329

.410 -.009 -.344 -.387 ~~-.368~~ ~~-.377~~ ~~-.313~~ -.240 ~~-.213~~

Ps 301-309 14.542 13.882 14.032 14.067 14.070 14.044 14.065 14.064 14.070

Ps 201-206 13.973 14.000 14.045 14.009 13.850 13.859

Ps 207-212 13.717 13.739 13.757 13.749 13.720 13.681

Ps 213-224 14.722 13.886 13.638 13.501 13.539 13.639 13.854 13.870 13.868 14.165 ~~14.169~~ 14.126

Ps 225-235 14.557 ~~14.652~~ 14.045 ~~13.761~~ 13.556 ~~13.660~~ 13.705 ~~14.549~~ 13.763 14.017 14.170 14.316

Ps 237-245 14.948 14.590 14.013 13.747 13.715 14.045 13.958 13.846 13.835

Pew = 13.956 L = .0131 Peb = 13.727 Ptc/Pew = 1.069 Wc = 1.31 T = 68. B = 29.96

Run 7-12 C1 IL SO B1 Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ $m/m' = .474$ 0.511

| | | | | | | | | | | | | | |
|----------------|-----------------|-------------------|-----------------|-------------------|---------|-------------------|--------|-------------------|--------|--------|------------------|--------|-------|
| Pt/Pto 131-144 | .999 | 1.000 | .992 | .990 | .999 | .999 | .998 | .995 | .984 | .990 | .984 | .983 | |
| Cp 330-344 | .571 | -.571 | -.525 | -.298 | .364 | -.256 | -.605 | -.753 | -.651 | -.530 | -.347 | -.305 | -.371 |
| Pt/Pto 101-130 | | | | | | | | | | | | | |
| .987 | .995 | .976 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .986 | | | | |
| 1.000 | 1.000 | 1.000 | 1.000 | .299 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | | |
| 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | | |
| Ptc = 14.923 | Ptc/ito = .998 | K = .0241 | | | | | | | | | | | |
| Cp 310-320 | .863 | .559 | .220 | .035 | -.071 | -.249 | -.216 | -.190 | -.218 | -.110 | -.127 | | |
| Cp 321-329 | .546 | .141 | -.189 | -.248 | -.245 | -.277 | -.234 | -.182 | -.152 | | | | |
| Ps 301-309 | 14.449 | 13.829 | 14.008 | 14.046 | 14.067 | 14.041 | 14.074 | 14.070 | 14.074 | 14.061 | | | |
| Ps 201-206 | 13.986 | 14.015 | 14.000 | 14.019 | 13.865 | 13.574 | | | | | | | |
| Ps 207-212 | 13.729 | 13.755 | 13.772 | 13.763 | 13.736 | 13.699 | | | | | | | |
| Ps 213-224 | 14.794 | 13.991 | 13.727 | 13.561 | 13.581 | 13.683 | 13.870 | 13.887 | 13.882 | 14.175 | 14.14 | 14.137 | |
| Ps 225-236 | 14.903 | 14.504 | 13.955 | 13.724 | 13.539 | 13.446 | 13.687 | 14.000 | 13.768 | 14.026 | 14.187 | 14.323 | |
| Ps 237-245 | 14.955 | 14.510 | 14.041 | 13.771 | 13.730 | 14.000 | 13.982 | 13.860 | 13.850 | | | | |
| Pcw = 13.870 | L = .0130 | Pcd = 13.792 | Ptc/Pcw = 1.068 | Wc = 1.30 | T = 68. | B = 29.97 | | | | | | | |

486.

466 -.259 -.311

1.000
1.000
1.000

-.076

920

三

14.075

13.862

13.684

14.129

14.299

13.838

29.97

Run 7-14 C1 I1 S6 B1 Eng 2 $\alpha=4^\circ$ $\beta=-4^\circ$ m/m²=1.474 0.511

Pt/Pto 131-144

~~.997~~ 1.000 .998 ~~1.000~~ .992 .989 1.000 1.000 .999 ~~.996~~ .993 .989 ~~.984~~ .984

Cp 330-344

~~.987~~ -.265 -.547 -.440 -.425 .402 -.245 -.592 -.735 -.632 -.506 -.307 -.454 -.251 -.320

Pt/Pto 101-130

.984 .987 .982 .977 1.000 1.000 1.000 1.000 .993 .982
1.000 1.000 1.000 1.000 .993 .986 1.000 1.000 1.000 1.000
1.000 .993 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.900 Ptc/Pto = .996 K = .0229

Cp 310-320

.901 .602 .254 .090 -.009 -.199 -.214 -.191 -.186 -.142 -.106

Cp 321-329

.962 .958 .681 .463 ~~.388~~ ~~.188~~ ~~.011~~ -.043 ~~-.158~~

Ps 301-309 13.451 13.227 13.472 13.644 13.776 13.950 14.023 14.031 14.047

Ps 201-206 13.961 13.991 14.019 13.985 13.830 13.638

Ps 207-212 13.689 13.715 13.733 13.725 13.695 13.657

Ps 213-224 14.714 13.767 13.469 13.282 13.318 13.501 13.696 13.735 13.749 14.141 ~~14.147~~ 14.109

Ps 225-236 14.404 ~~13.788~~ 12.918 ~~12.783~~ 12.830 ~~12.966~~ 13.416 ~~14.537~~ 13.533 13.947 14.123 14.227

Ps 237-245 14.957 14.658 14.108 13.816 13.751 14.058 13.957 13.825 13.810

Pcw = 13.937 L = .0127 Peb = 13.702 Ptc/Pcw = 1.069 Wc = 1.31 T = 71. B = 29.97

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Run 7-15 C1 I1 SO B1 Eng 2 $\alpha=4^\circ$ $\beta=-10^\circ$ $m/m^* = .474$ 0.510

Pt/Pto 131-144

~~.996~~ .999 ~~.999~~ .992 .989 1.000 1.000 1.000 ~~.997~~ .993 .990 ~~.983~~ .983

Cp 330-344

~~.937~~ -.235 -.543 -.482 -.294 .346 -.284 -.616 -.751 ~~.653~~ -.533 -.359 -.556 -.304 -.421

Pt/Pto 101-130

.979 .965 .984 .984 1.000 1.000 1.000 .971 .989 .963
1.000 1.000 1.000 .977 .983 .985 1.000 1.000 .985
.992 .993 1.000 1.000 .997 .999 1.000 1.000 1.000

Ptc = 14.845 Ptc/Pto = .992 K = .0355

Cp 310-320

.825 .575 .233 .957 -.047 -.242 -.294 -.289 -.300 -.227 -.197

Cp 321-329

.645 .996 .900 .702 ~~.596~~ ~~.350~~ .386 .000 ~~.115~~

Ps 301-309 13.008 12.789 13.174 13.418 13.599 13.851 13.931 13.937 13.959

Ps 201-206 13.892 13.933 13.951 13.922 13.754 13.758

Ps 207-212 13.601 13.632 13.654 13.637 13.607 13.569

Ps 213-224 14.617 13.586 13.276 13.086 13.132 13.381 13.562 13.605 13.626 14.051 ~~14.059~~ 14.035

Ps 225-236 13.893 ~~13.916~~ 12.524 ~~12.577~~ 12.702 ~~12.976~~ 13.126 ~~14.544~~ 13.337 13.772 13.974 14.096

Ps 237-245 14.959 14.660 14.080 13.756 13.669 13.998 13.866 13.720 13.715

Pcw = 13.870 L = .0140 Pcb = 13.617 Ptc/Pcw = 1.070 Wc = 1.31 T = 72. B = 29.97

Run 7-16 C1 IL SO B1 Eng 2 $\alpha = 4^\circ$ $\beta = -10^\circ$ $m/m^* = .474$ 0.518

Pt/Pto 131-144

| | | | | | | | | | | | | |
|-----------------|------|-----------------|------|------|-------|-------|-------|-----------------|------|------|-----------------|------|
| .998 | .999 | .999 | .994 | .991 | 1.000 | 1.000 | 1.000 | .999 | .996 | .992 | .984 | .983 |
|-----------------|------|-----------------|------|------|-------|-------|-------|-----------------|------|------|-----------------|------|

Cp 330-344

| | | | | | | | | | | | | | | |
|-----------------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| .998 | -.037 | -.364 | -.347 | -.189 | .435 | -.12 | -.441 | -.607 | -.555 | -.465 | -.334 | -.542 | -.247 | -.377 |
|-----------------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|

Pt/Pto 101-130

| | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| .978 | .971 | .986 | .984 | 1.000 | 1.000 | 1.000 | .979 | .991 | .985 |
| 1.000 | 1.000 | .986 | .991 | .988 | 1.000 | 1.000 | 1.000 | 1.000 | .995 |
| .996 | .996 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

Ptc = 14.875 Ptc/Pto = .994 K = .0294

Cp 310-320

| | | | | | | | | | | |
|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| .874 | .737 | .441 | .257 | .142 | -.078 | -.189 | -.187 | -.181 | -.171 | -.146 |
|------|------|------|------|------|-------|-------|-------|-------|-------|-------|

Cp 321-329

| | | | | | | | | |
|------|------|------|------|------|------|------|------|-------|
| .812 | .993 | .834 | .637 | .530 | .360 | .119 | .050 | -.031 |
|------|------|------|------|------|------|------|------|-------|

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ps 301-309 | 13.278 | 12.999 | 13.339 | 13.543 | 13.698 | 13.917 | 14.000 | 14.007 | 14.033 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|
| Ps 201-206 | 13.966 | 14.005 | 14.024 | 13.993 | 13.836 | 13.841 |
|------------|--------|--------|--------|--------|--------|--------|

| | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|
| Ps 207-212 | 13.691 | 13.720 | 13.741 | 13.728 | 13.700 | 13.663 |
|------------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|
| Ps 213-224 | 14.480 | 13.435 | 13.175 | 13.053 | 13.136 | 13.487 | 13.605 | 13.659 | 13.689 | 14.127 | 14.115 | 14.105 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|

| | | | | | | | | | | | | |
|------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|--------|--------|--------|
| Ps 225-236 | 14.132 | 13.457 | 12.673 | 12.642 | 12.783 | 13.011 | 13.251 | 14.550 | 13.475 | 13.878 | 14.059 | 14.169 |
|------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|--------|--------|--------|

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ps 237-245 | 14.963 | 14.721 | 14.195 | 13.885 | 13.795 | 14.083 | 13.958 | 13.817 | 13.807 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | |
|--------------|-----------|--------------|-----------------|-----------|---------|-----------|
| Pev = 13.944 | L = .0126 | Peb = 13.707 | Ptc/Pcv = 1.067 | Wc = 1.28 | T = 72. | B = 29.98 |
|--------------|-----------|--------------|-----------------|-----------|---------|-----------|

Run 7-17 C1 I1 S0 B1 Eng 2 $\alpha = -4^\circ$ $\beta = -4^\circ$ $m/m^* = .474$ 0.510

Pt/Pto 131-144

~~.998~~ 1.000 1.000 ~~1.000~~ .994 .991 1.000 1.000 1.000 ~~.999~~ .996 .992 ~~.984~~ .984

Cp 330-344

~~.989~~ -.130 -.417 -.356 -.173 .489 -.077 -.418 -.590 -.545 -.443 -.288 -.468 -.223 -.318

Pt/Pto 101-130

.982 .987 .983 .979 1.000 1.000 1.000 1.000 .994 .984
1.000 1.000 1.000 1.000 .988 1.000 1.000 1.000 1.000
1.000 .997 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.310 Ptc/Pto = .996 K = .0217

Cp 310-320

.966 .787 .472 .281 .165 -.052 -.142 -.130 -.132 -.117 -.093

Cp 321-329

1.001 .857 .542 .340 .260 --- -.086 -.023 -.043 ~~-.099~~

Ps 301-309 13.505 13.301 13.626 13.790 13.884 13.988 14.069 14.077 14.093

Ps 201-206 14.011 14.040 14.067 14.032 13.883 13.890

Ps 207-212 13.748 13.772 13.790 13.782 13.752 13.716

Ps 213-224 14.581 13.502 13.350 13.227 13.299 13.569 13.760 13.762 13.783 14.182 ~~14.161~~ 14.150

Ps 225-236 14.583 ~~13.824~~ 13.129 ~~12.956~~ 12.957 13.095 13.495 ~~14.554~~ 13.592 13.992 14.170 14.279

Ps 237-245 14.964 14.704 14.187 13.898 13.825 14.107 14.007 13.878 13.865

Pcw = 13.987 L = .0123 Pcb = 13.760 Ptc/Pcw = 1.066 Wc = 1.28 T = 72. B = 29.98

Run 7-18 Cl I: SO B. Eng 2 $\alpha=4^\circ$ $\beta=4^\circ$ $m/m^*=.474$ 0.515

Pt/Pto 131-144

~~.990~~ 1.000 1.000 ~~1.000~~ .994 .991 1.000 1.000 1.000 ~~.999~~ .995 .990 ~~.965~~ .984

Cp 33C-344

~~.445~~ -.335 -.556 -.446 -.259 .500 -.064 -.418 -.595 -.541 -.447 -.293 -.491 -.253 -.345

Pt/Pto 101-130

.985 .993 .991 .977 1.000 1.000 1.000 1.000 1.000 .988
1.000 1.000 1.000 1.000 .999 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 .999 1.000 1.000 1.000 1.000

Ptc = 14.928 Ptc/Pto = .938 K = .0234

Cp 310-320

1.019 .795 .466 .255 .135 -.079 -.142 -.129 -.169 -.133 -.117

Cp 321-329

.787 .391 -.000 -.131 -.164 -.238 -.242 -.195 -.201

Ps 301-309 14.409 13.721 13.945 14.004 14.032 14.029 14.090 14.091 14.104

Ps 201-200 14.009 14.037 14.074 14.038 13.884 13.892

Ps 207-212 13.750 13.775 13.793 13.784 13.757 13.719

Ps 213-224 14.646 13.744 13.502 13.387 13.447 13.599 13.612 13.840 13.849 14.188 ~~14.157~~ 14.152

Ps 225-236 14.881 ~~14.441~~ 13.755 ~~13.493~~ 13.360 ~~13.497~~ 13.630 ~~14.555~~ 13.717 14.022 14.191 14.321

Ps 237-245 14.961 14.655 14.115 13.839 13.787 14.085 14.005 13.880 13.868

Pcw = 13.989 L = .0127 Pcb = 13.763 Ptc/Pcw = 1.067 Wc = 1.29 T = 73. B = 29.98

Run 7-19 C1 I1 S0 B1 Eng 2 $\alpha = -4^\circ$ $\beta = 10^\circ$ m/m² = .474 0.520

Pt/Pto 131-144

~~.998~~ 1.000 1.000 ~~1.000~~ .995 .991 .999 .999 .999 .994 .987 ~~.987~~ .983

Cp 330-344

~~.542~~ -.542 -.704 -.562 -.387 .448 -.689 -.437 -.611 -.559 -.470 -.333 -.559 -.321 -.414

Pt/Pto 101-130

.986 .995 .997 .982 1.000 1.000 1.000 1.000 1.000 1.000 .996
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.941 Ptc/Fto = .999 K = .0186

Cp 310-320

.947 .715 .386 .182 .057 -.151 -.201 -.188 -.244 -.217 -.211

Cp 321-329

.215 -.206 -.504 -.526 ~~.474~~ -.478 ~~.401~~ -.307 ~~-.57~~

Ps 301-309 14.688 13.962 14.103 14.132 14.136 14.092 14.114 14.110 14.123

Ps 201-206 14.023 14.047 14.089 14.056 13.902 13.911

Ps 207-212 13.771 13.795 13.812 13.806 13.778 13.741

Ps 213-224 14.671 13.833 13.614 13.508 13.563 13.556 13.688 13.906 13.908 14.204 ~~14.168~~ 14.167

Ps 225-236 14.896 ~~14.722~~ 14.144 ~~13.860~~ 13.644 13.734 13.776 ~~14.553~~ 13.818 14.061 14.217 14.351

Ps 237-245 14.959 14.628 14.076 13.215 13.782 14.091 14.016 13.897 13.886

Pcv = 14.005 L = .0125 Pcb = 13.784 Ptc/Pcv = 1.067 Wc = 1.29 T = 74. B = 29.98

Run 6-2 C1 I1 S0 A1 Eng 2 $\alpha = -4^\circ$ $\beta = 0^\circ$ $\pi/\mu = .616$ 0.659

| | | | | | | | | | | | | | | | | |
|----------------|--|-----------------|-------------------|--------|-------------------|-----------------|-------------------|--------|-------------------|--------|--------|-----------------|--------|-------|-------|-------|
| Fu/Pto 131-144 | | 1.000 | 1.000 | .993 | .990 | .999 | 1.000 | 1.000 | .998 | .994 | .989 | .981 | .982 | | | |
| Cp 330-344 | | .985 | -.244 | -.510 | -.436 | -.280 | .483 | -.090 | -.447 | -.637 | -.594 | -.513 | -.451 | -.848 | -.376 | -.551 |
| Pt/Pto 101-130 | | .973 | .961 | 1.000 | 1.000 | 1.000 | 1.000 | .996 | .996 | .960 | | | | | | |
| 1.000 | | 1.000 | 1.000 | 1.000 | .971 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | | | | |
| 1.000 | | .989 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | | | | |
| Pto = 14.353 | | Pto/Pto = | | .993 | K = | | .0402 | | | | | | | | | |
| Cp 310-320 | | .923 | .731 | .498 | .349 | .077 | -.089 | -.094 | -.119 | -.110 | -.091 | | | | | |
| Cp 321-329 | | .924 | .898 | .565 | .321 | .634 | .634 | -.082 | -.086 | -.132 | | | | | | |
| Ps 301-309 | | 12.785 | 12.056 | 12.495 | 12.928 | 13.051 | 13.245 | 13.355 | 13.359 | 13.366 | | | | | | |
| Ps 301-306 | | 13.212 | 13.261 | 13.325 | 13.248 | 12.990 | 12.998 | | | | | | | | | |
| Ps 207-212 | | 12.725 | 12.773 | 12.806 | 12.783 | 12.728 | 630.000 | | | | | | | | | |
| Ps 213-224 | | 13.909 | 12.372 | 12.023 | 11.566 | 11.986 | 12.617 | 12.749 | 12.829 | 12.860 | 13.540 | 13.548 | 13.478 | | | |
| Ps 225-236 | | 14.258 | 13.117 | 11.974 | 11.534 | 11.534 | 11.763 | 12.419 | 12.557 | 12.554 | 13.225 | 13.533 | 13.748 | | | |
| Ps 237-245 | | 14.958 | 14.428 | 13.450 | 12.928 | 12.819 | 13.405 | 13.219 | 12.989 | 12.955 | | | | | | |
| Fev = 13.172 | | L = | .0225 | Peb = | 12.745 | Pto/Fev = | 1.128 | Wc = | 1.67 | T = | 76. | B = | 20.28 | | | |

Run 8-3 CI II SO HI Eng 2 $\alpha = -10^\circ$ $\beta = 0^\circ$ $m/m^* = .610$ 0.659

Pt/Pto 131-144

~~.997~~ 1.000 1.000 ~~1.000~~ .995 .991 1.000 1.000 1.000 ~~1.000~~ .996 .991 ~~-.982~~ .983

Cp 330-344

~~-.944~~ -.157 -.416 -.378 -.257 .569 .057 -.283 -.490 -.483 -.426 -.410 -.841 -.334 -.635

Pt/Pto 101-130

.955 .273 .972 .962 1.000 1.000 .999 1.000 .998 .965
1.000 1.000 1.000 1.000 .976 1.000 1.000 1.000 1.000
1.000 .993 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.865 Ptc/Pto = .993 K = .0383

Cp 310-320

.693 .987 .816 .621 .450 .197 -.019 -.039 -.080 -.085 -.079

Cp 321-329

.916 .802 .417 .191 ~~.162~~ ~~-.073~~ ~~-.134~~ ~~-.146~~ ~~-.147~~

Ps 301-309 12.901 12.119 12.634 12.959 13.137 13.261 13.368 13.370 13.383

Ps 201-206 13.225 13.274 13.342 13.264 13.002 13.013

Ps 207-212 12.741 12.790 12.823 12.799 12.745 12.680

Ps 213-224 13.664 12.152 11.861 11.782 11.930 12.621 12.750 12.835 12.871 13.552 ~~13.555~~ 13.489

Ps 225-236 14.368 ~~13.277~~ 12.130 ~~11.744~~ 11.630 ~~11.667~~ 12.467 ~~14.554~~ 12.585 13.239 13.553 ~~13.768~~

Ps 237-245 14.958 14.433 13.465 12.945 12.836 13.418 13.233 13.002 12.979

Pcw = 13.187 L = .0229 Pcb = 12.763 Ptc/Pcw = 1.127 Wc = 1.67 T = 76. B = 29.98

Run 8-4 C1 IL S0 B1 Eng 2 s=20 s=0 m/m²=.610 0.661

Pt/Pto 131-144

1.000 1.000 1.000 1.000 .998 .998 1.000 1.000 1.000 1.000 .999 .994 .982 .982

Cp 330-344

.110 -.022 -.249 -.257 -.207 .700 .317 .012 -.201 -.244 -.232 -.303 -.838 -.232 -.596

Pt/Pto 101-130

.960 .980 .970 .962 1.000 1.000 .998 1.000 .999 .977
1.000 1.000 1.000 1.000 .985 1.000 1.000 1.000
1.000 .999 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.875

Ptc/Pto = .994

K = .0405

Cp 310-320

.198 .929 .956 .821 .695 .423 .134 .097 .025 .000 -.031

Cp 321-329

.846 .630 .198 -.030 -.111 -.272 -.361 -.303 -.282

Ps 301-309 13.434 12.219 12.847 13.132 13.244 13.276 13.371 13.373 13.391

Ps 201-206 13.222 13.276 13.342 13.269 13.001 13.013

Ps 207-212 12.741 12.789 12.823 12.800 12.746 12.682

Ps 213-224 13.102 11.687 11.520 11.585 11.771 12.583 12.725 12.824 12.870 13.552 13.559 13.487

Ps 225-236 14.462 13.455 12.298 11.882 11.725 11.953 12.507 14.553 12.612 13.248 13.559 13.778

Ps 237-245 14.958 14.424 13.454 12.940 12.833 13.424 13.233 13.002 12.978

Pcv = 13.187 L = .0229 Pcb = 12.763 Ptc/Pcv = 1.128 Wc = 1.67 T = 77. B = 29.98

Run 8-5 C1 P SC B1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ $m/m^* = .446$ 0.662

Pt/Pto 131-144
~~.999~~ .999 .995 ~~.999~~ .991 .988 .999 1.000 .998 ~~.999~~ .991 .987 ~~.982~~ .982

Cp 330-344
~~.999~~ .999 .995 ~~.999~~ .991 .988 .999 1.000 .998 ~~.999~~ .991 .987 ~~.982~~ .982

Pt/Ptc 101-130
 .971 .980 .972 .959 1.000 1.000 1.000 1.000 .993 .957
 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
 1.000 .991 1.000 1.000 1.000 1.000 .999 1.000 1.000

Ptc = 14.852 Ptc/Pto = .993 K = .0436

Cp 310-320
 .937 .893 .585 .352 .212 -.042 -.145 -.135 -.112 -.078

Cp 321-329
 .831 .977 .708 .485 ~~.377~~ ~~.359~~ ~~.002~~ ~~.047~~ ~~.122~~

Ps 301-309 12.543 11.968 12.300 12.643 12.907 13.211 13.321 13.323 13.331

Ps 201-206 13.167 13.220 13.279 13.209 12.945 12.954

Ps 207-212 12.673 12.723 12.755 12.732 12.676 12.611

Ps 213-224 14.146 12.595 12.183 11.934 12.015 12.569 12.725 12.794 12.822 13.505 ~~13.524~~ 13.444

Ps 225-236 14.042 ~~14.034~~ 11.705 ~~11.595~~ 11.365 ~~11.631~~ 12.324 ~~14.549~~ 12.485 13.183 13.497 ~~13.698~~

Ps 237-245 14.958 14.403 13.397 12.864 12.755 13.366 13.177 12.942 12.912

Pcw = 13.129 L = .0225 Feb = 12.695 Ptc/Pcw = 1.131 Wc = 1.58 T = 78. B = 29.98

| | | | | | | | | | | | |
|----------------|-----------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|--------|
| Pt/Pto 131-144 | .998 | .995 | .989 | .986 | .999 | .998 | .995 | .992 | .989 | .984 | .981 |
| Cp 330-344 | .417 | .669 | .517 | .310 | .342 | .360 | .716 | .845 | .726 | .458 | .622 |
| Pt/Pto 101-130 | .973 | .979 | .966 | .958 | 1.000 | 1.000 | 1.000 | .998 | .957 | | |
| | 1.000 | 1.000 | 1.000 | .999 | .965 | 1.000 | 1.000 | 1.000 | 1.000 | | |
| | 1.000 | .979 | 1.000 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | | |
| Ptc = 14.846 | Ptc/Pto = | .992 | K = | .0434 | | | | | | | |
| Cp 310-320 | .935 | .497 | .252 | .119 | .111 | .165 | .147 | .142 | .099 | .062 | |
| Cp 321-329 | .734 | .976 | .813 | .583 | .443 | .619 | .069 | .113 | | | |
| Fs 301-309 | 12.438 | 11.912 | 12.170 | 12.507 | 12.797 | 13.187 | 13.289 | 13.299 | 13.306 | | |
| Fs 201-206 | 13.143 | 13.192 | 13.253 | 13.127 | 12.919 | 12.927 | | | | | |
| Fs 207-212 | 12.643 | 12.690 | 12.723 | 12.701 | 12.646 | 12.580 | | | | | |
| Fs 213-224 | 14.290 | 12.752 | 12.299 | 11.992 | 12.039 | 12.531 | 12.715 | 12.778 | 12.799 | 13.483 | 13.421 |
| Fs 225-235 | 13.835 | 12.597 | 11.502 | 11.244 | 11.252 | 11.590 | 12.258 | 12.442 | 12.159 | 13.461 | 13.650 |
| Fs 237-245 | 14.959 | 14.388 | 13.353 | 12.822 | 12.716 | 13.340 | 13.146 | 12.910 | 12.889 | | |
| Few = 13.103 | L = .0225 | Feb = 12.664 | Ptc/Few = 1.133 | Wc = 1.69 | T = 78. | B = 29.98 | | | | | |

Run 8-7 C1 L1 SO B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $m/m^*=$ ~~.612~~ 0.662

Pt/Pto 131-144

~~.996~~ .994 ~~.998~~ .986 .966 .996 .997 .994 ~~.992~~ .989 .984 ~~.976~~ .980

Cp 330-344

~~.996~~ .993 .988 .953 .9713 .9521 .9322 .929 .9468 .9795 .9704 .9549 .9402 .9792 .9352 .9615

Pt/Pto 101-130

.975 .968 .955 .961 1.000 1.000 1.000 .991 .965 .960
1.000 1.000 1.000 .997 .980 .972 1.000 1.000 1.000 1.000
.993 .988 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.815 Ptc/Pto = .990 K = .0459

Cp 310-320

.915 .691 .334 .145 .033 .9155 .9142 .9108 .9105 .9060 .9045

Cp 321-329

.317 .902 .853 .687 ~~.574~~ .305 ~~.011~~ .910 ~~.910~~

Ps 301-309 12.479 11.928 11.972 12.157 12.428 13.134 13.267 13.269 13.285

Ps 201-206 13.117 13.170 13.233 13.171 12.892 12.902

Ps 207-212 12.613 12.662 12.695 12.669 12.617 12.550

Ps 213-224 14.445 12.951 12.455 12.078 12.081 12.475 12.710 12.734 12.782 13.459 ~~13.454~~ 13.398

Ps 225-236 13.410 ~~12.163~~ 11.177 ~~11.600~~ 11.128 ~~11.754~~ 12.134 12.424 13.134 13.398 13.580

Ps 237-245 14.958 14.367 13.351 12.803 12.689 13.318 13.119 12.876 12.857

Pcw = 13.081 L = .0230 Pcb = 12.634 Ptc/Pcw = 1.133 Wc = 1.58 T = 79. B = 29.98

Run 8-8 C1 I1 S0 B1 Eng 2 $\alpha=0^\circ$ $\beta=-4^\circ$ m/m² = ~~0.610~~ 0.663

Pt/Pto 131-144

~~1.000~~ .999 ~~1.000~~ .992 .988 .977 1.000 .977 .989 ~~1.000~~ .982

Cp 330-344

~~1.000~~ -.219 -.517 -.449 -.289 .430 -.189 -.543 -.718 -.551 -.477 -.863 -.393 -.677

Pt/Pto 101-130

.950 .970 .972 .966 1.000 1.000 1.000 .996 .982 .961
1.000 1.000 1.000 .999 .994 .986 1.000 1.000 1.000 1.000
1.000 .981 1.000 1.000 1.000 1.000 1.000 .999 1.000 1.000

Ptc = 14.837 Ptc/Pto = .992 K = .0394

Cp 310-320

.815 .887 .632 .408 .266 .005 -.136 -.142 -.144 -.130 -.103

Cp 321-329

.702 .983 .803 .986 ~~1.000~~ ~~1.000~~ ~~1.000~~ ~~1.000~~ ~~1.000~~ ~~1.000~~ ~~1.000~~

Fs 301-309 12.365 11.674 12.171 12.555 12.840 13.172 13.289 13.285 13.277

Fs 201-206 13.147 13.202 13.252 13.184 12.923 12.929

Fs 207-212 12.646 12.694 12.728 12.703 12.647 12.584

Fs 213-214 13.963 12.364 11.965 11.753 11.860 12.506 12.643 12.725 12.762 13.490 ~~13.481~~ 13.420Fs 225-235 13.785 ~~13.785~~ 11.406 ~~11.406~~ 11.213 ~~11.213~~ 12.178 ~~12.178~~ 12.441 13.136 13.424 13.615

Fs 237-245 14.958 14.414 13.409 12.866 12.745 13.357 13.153 12.909 12.909

Pev = 13.106 L = .0222 Pev = 12.667 Ptc/Pto = 1.132 Wc = 1.68 T = 30. B = 29.98

Run 8-2 C: I1 S0 B1 Eng 2 1=0° $\beta = -10^\circ$ $\pi/m = 0.661$

Pt/Fto 131-144

~~.999~~ .999 ~~-.999~~ .992 .988 .999 1.000 1.000 ~~-.999~~ .994 .909 ~~-.999~~ .981

Sp 330-344

~~-.999~~ -.999 -.483 -.470 -.336 .376 -.223 -.564 -.728 -.668 -.577 -.522 -.944 -.431 -.763

Pt/Fto 101-130

.999 .938 .975 .973 1.000 1.000 .999 .951 .984 .977
1.000 1.000 1.000 .961 .983 .960 1.000 1.000 .976
.989 .982 1.000 1.000 1.000 .995 .998 .995 1.000 1.000

Fto = 14.762 Pto/Fto = .987 K = .0626

Sp 310-320

.632 .777 .553 .349 .214 -.043 -.207 -.216 -.221 -.197 -.177

Sp 321-329

.149 .926 .953 .786 ~~.674~~ ~~.449~~ ~~.166~~ .068 ~~-.045~~

Is 301-309 11.975 11.121 11.813 12.295 12.670 13.031 13.139 13.117 13.156

Is 201-206 12.026 13.100 13.150 13.072 12.796 12.799

Is 207-212 12.496 12.558 12.603 12.558 12.497 12.434

Is 213-224 13.816 12.140 11.729 11.504 1.615 12.331 12.469 12.558 12.600 13.343 ~~13.347~~ 13.289

Is 225-236 ~~13.131~~ ~~11.525~~ 10.896 ~~11.894~~ 11.130 11.594 11.894 ~~14.535~~ 12.209 12.865 13.211 13.429

Ps 237-245 14.358 14.389 13.326 12.736 12.595 13.038 13.004 12.740 12.734

Fov = 14.991 L = .0240 Pcb = 12.524 Itc/Icw = 1.136 Wc = 1.69 I = 30. B = 29.98

Run 8-10 C1 I1 S0 B1 Eng 2 $\alpha=0^\circ$ $\beta=4^\circ$ $m/m^2=.623$ 0.663

Pt/Pto 131-144

~~.996~~ 1.000 .999 ~~1.000~~ .992 .989 .999 1.000 .999 ~~.987~~ .987 ~~.986~~ .982

Cp 330-344

~~.997~~ -.392 -.626 -.502 -.320 .440 -.181 -.545 -.721 -.659 -.561 -.477 -.873 -.404 -.661

Pt/Pto 101-130

.972 .984 .980 .956 1.000 1.000 1.000 1.000 1.000 .960
1.000 1.000 1.000 1.000 .971 1.000 1.000 1.000 1.000
1.000 .989 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.866 Pto/Pto = .994 K = .0443

Cp 310-320

.918 .949 .653 .418 .267 .001 -.126 -.121 -.150 -.126 -.103

Cp 321-329

.975 .817 .419 .209 .126 ~~.041~~ ~~.124~~ -.112 ~~.156~~

Ps 301-309 12.832 12.109 12.586 12.909 13.101 13.250 13.345 13.351 13.358

Ps 201-206 13.190 13.241 13.315 13.236 12.970 12.979

Ps 217-212 12.703 12.752 12.786 12.762 12.703 12.642

Ps 213-224 14.078 12.580 12.205 12.011 12.105 12.618 12.800 12.855 12.885 13.529 ~~13.520~~ 13.465

Ps 225-235 14.446 ~~13.467~~ 12.268 ~~11.875~~ 11.721 ~~11.966~~ 12.407 ~~14.538~~ 12.506 13.221 13.535 13.752

Ps 237-245 14.356 14.391 13.386 12.806 12.769 13.378 13.203 12.970 12.446

Pcw = 13.155 L = .0232 Pco = 12.726 Pto/Pto = 1.130 Wc = 1.67 T = 81. B = 23.98

Run 8-11 C1 I1 S0 B1 Eng 2 $\alpha=0^\circ$ $\beta=10^\circ$ m/m² = ~~.640~~ 0.662

Pt/Fto 131-144

~~.997~~ 1.000 .999 ~~1.000~~ .992 .989 .998 .999 .998 ~~.999~~ .992 .984 ~~.999~~ .981

Cp 330-344

~~.999~~ -.573 -.748 -.591 -.406 .387 -.202 -.561 -.735 -.673 -.581 -.511 -.946 -.452 -.704

Pt/Fto 101-130

.974 .989 .983 .953 1.000 1.000 1.000 1.000 1.000 1.000 .965
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
1.000 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.887 Ptc/Fto = .995 K = .0471

Cp 310-320

.910 .923 .617 .365 .212 -.054 -.173 -.165 -.219 -.190 -.184

Cp 321-329

.888 .481 .052 -.113 ~~-.159~~ ~~-.253~~ ~~-.448~~ -.202 ~~-.180~~

Ps 301-309 13.549 12.340 12.948 13.183 13.270 13.281 13.363 13.375 13.381

Ps 201-206 13.203 13.253 13.331 13.255 12.989 13.000

Ps 207-212 12.724 12.773 12.806 12.782 12.730 12.663

Ps 213-224 14.113 12.683 12.328 12.148 12.235 12.723 12.882 12.933 12.943 13.544 ~~13.550~~ 13.477

Ps 225-236 14.735 ~~13.740~~ 12.635 ~~12.381~~ 12.104 ~~12.347~~ 12.647 ~~14.534~~ 12.712 13.256 13.563 13.798

Ps 237-245 14.958 14.400 13.392 12.874 12.781 13.382 13.215 12.990 12.968

Pcw = 13.172 L = .0230 Pcb = 12.747 Ptc/Pcw = 1.130 Wc = 1.67 T = 82. B = 29.98

[illegible]

| | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -080 | -.565 | -.759 | -.575 | -.367 | .344 | -.284 | -.644 | -.804 | -.727 | -.609 | -.518 | -.943 | -.446 | -.684 |
|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

| | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| .975 | .983 | .988 | .951 | 1.000 | 1.000 | 1.000 | 1.000 | .961 |
| 1.000 | 1.000 | 1.000 | 1.000 | .975 | 1.000 | 1.000 | 1.000 | 1.000 |
| 1.000 | .996 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

$$Ptc = 14.881 \quad Ptc/Fto = .995 \quad K = .0491$$

| | | | | | | | | | | |
|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| .357 | .887 | .553 | .305 | .160 | -.092 | -.176 | -.157 | -.203 | -.163 | -.134 |
|------|------|------|------|------|-------|-------|-------|-------|-------|-------|

| | | | | | | | |
|------|------|------|------|-----------------|------------------|------------------|------------------|
| .757 | .601 | .184 | .005 | .157 | -.177 | -.146 | -.150 |
|------|------|------|------|-----------------|------------------|------------------|------------------|

| | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 301-303 | 13.123 | 12.291 | 13.089 | 13.212 | 13.267 | 13.353 | 13.366 | 13.374 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|
| Pa 01-206 | 13.126 | 13.248 | 13.527 | 13.248 | 12.982 | 12.992 |
|-----------|--------|--------|--------|--------|--------|--------|

Ps 207-212 12.717 12.765 12.738 12.774 12.722 12.656

| Year | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| 2023 | 14,229 | 12,793 | 12,415 | 12,194 | 12,253 | 12,700 | 13,873 | 12,027 | 13,024 | 12,538 | 13,550 | 13,143 | 13,733 | 13,326 | 14,338 | 13,931 | 14,943 | 14,536 | 15,548 | 15,141 | 16,153 | 15,746 | 16,758 | 16,351 | 17,363 | 16,956 | 17,968 | 17,561 | 18,573 | 18,166 | 19,178 | 18,771 | 19,783 | 19,376 | 20,388 | 19,981 | 20,993 | 20,586 | 21,598 | 21,191 | 22,203 | 21,796 | 22,808 | 22,401 | 23,413 | 23,006 | 24,018 | 23,611 | 24,623 | 24,216 | 25,228 | 24,821 | 25,833 | 25,426 | 26,438 | 26,031 | 27,043 | 26,636 | 27,648 | 27,241 | 28,253 | 27,846 | 28,858 | 28,451 | 29,463 | 29,056 | 30,068 | 29,661 | 30,673 | 30,266 | 31,278 | 30,871 | 31,883 | 31,476 | 32,488 | 32,081 | 33,093 | 32,686 | 33,698 | 33,291 | 34,303 | 33,896 | 34,908 | 34,501 | 35,513 | 35,106 | 36,118 | 35,711 | 36,723 | 36,316 | 37,328 | 36,921 | 37,933 | 37,526 | 38,538 | 38,131 | 39,143 | 38,736 | 39,748 | 39,341 | 40,353 | 39,946 | 40,958 | 40,551 | 41,563 | 41,156 | 42,168 | 41,761 | 42,773 | 42,366 | 43,378 | 42,971 | 43,983 | 43,576 | 44,588 | 44,181 | 45,193 | 44,786 | 45,798 | 45,391 | 46,403 | 46,000 | 47,012 | 46,605 | 47,617 | 47,210 | 48,222 | 47,815 | 48,827 | 48,420 | 49,432 | 49,025 | 50,037 | 49,630 | 50,642 | 50,235 | 51,247 | 50,840 | 51,852 | 51,445 | 52,457 | 52,050 | 53,062 | 52,655 | 53,667 | 53,260 | 54,272 | 53,865 | 54,877 | 54,470 | 55,482 | 55,075 | 56,087 | 55,680 | 56,692 | 56,285 | 57,297 | 56,890 | 57,902 | 57,495 | 58,507 | 58,100 | 59,112 | 58,705 | 59,717 | 59,310 | 60,322 | 59,915 | 60,927 | 60,520 | 61,532 | 61,125 | 62,137 | 61,730 | 62,742 | 62,335 | 63,347 | 62,940 | 63,952 | 63,545 | 64,557 | 64,150 | 65,162 | 64,755 | 65,767 | 65,360 | 66,372 | 65,965 | 66,977 | 66,570 | 67,582 | 67,175 | 68,187 | 67,780 | 68,792 | 68,385 | 69,397 | 68,990 | 69,999 | 69,592 | 70,604 | 70,197 | 71,209 | 70,802 | 71,814 | 71,407 | 72,419 | 72,012 | 73,024 | 72,617 | 73,629 | 73,222 | 74,234 | 73,827 | 74,839 | 74,432 | 75,444 | 75,037 | 76,049 | 75,642 | 76,654 | 76,247 | 77,259 | 76,852 | 77,864 | 77,457 | 78,469 | 78,062 | 79,074 | 78,667 | 79,679 | 79,272 | 80,284 | 79,877 | 80,889 | 80,482 | 81,494 | 81,087 | 82,099 | 81,692 | 82,704 | 82,297 | 83,309 | 82,902 | 83,914 | 83,507 | 84,519 | 84,112</ |

[illegible]

Pa 237-245 14 050 14 408 13 100 12 873 12 770 13 378 13 212 12 083 12 150

| Row | 12 | 15 | 1 | 0.20 | 0.4 | 0.6 | 0.8 | 1.0 | 1.2 | 1.4 | 1.6 | 1.8 | 2.0 | 2.2 | 2.4 | 2.6 | 2.8 | 3.0 | 3.2 | 3.4 | 3.6 | 3.8 | 4.0 | 4.2 | 4.4 | 4.6 | 4.8 | 5.0 | 5.2 | 5.4 | 5.6 | 5.8 | 6.0 | 6.2 | 6.4 | 6.6 | 6.8 | 7.0 | 7.2 | 7.4 | 7.6 | 7.8 | 8.0 | 8.2 | 8.4 | 8.6 | 8.8 | 9.0 | 9.2 | 9.4 | 9.6 | 9.8 | 10.0 |
|-----|----|----|---|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Row | 12 | 15 | 1 | 0.20 | 0.4 | 0.6 | 0.8 | 1.0 | 1.2 | 1.4 | 1.6 | 1.8 | 2.0 | 2.2 | 2.4 | 2.6 | 2.8 | 3.0 | 3.2 | 3.4 | 3.6 | 3.8 | 4.0 | 4.2 | 4.4 | 4.6 | 4.8 | 5.0 | 5.2 | 5.4 | 5.6 | 5.8 | 6.0 | 6.2 | 6.4 | 6.6 | 6.8 | 7.0 | 7.2 | 7.4 | 7.6 | 7.8 | 8.0 | 8.2 | 8.4 | 8.6 | 8.8 | 9.0 | 9.2 | 9.4 | 9.6 | 9.8 | 10.0 |

Run 8-13 C1 II SO B1 Eng 2 $\alpha=4^\circ$ $\beta=4^\circ$ $m/\pi^* = 610$ 0.663

Pt/Pto 131-144
~~997~~ 1.000 .938 ~~1.000~~ .991 .988 .999 .999 .998 .991 .985 .982 .981

Cp 330-344
~~999~~ -.426 -.658 -.508 -.309 .396 -.262 -.628 -.787 -.697 -.507 -.479 -.865 -.401 -.639

Pt/Pto 101-130
 .973 .564 .361 .955 1.000 1.000 1.000 1.000 1.000 .959
 1.000 1.000 1.000 1.000 .970 1.000 1.000 1.000 1.000
 1.000 .388 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.870 Ptc/Ptc = .934 K = .0461

Cp 310-320
 .386 .904 .601 .345 .201 -.051 -.144 -.128 -.143 -.114 -.082

Cp 321-329
 .370 .362 .540 .302 ~~.13~~ ~~.692~~ ~~.087~~ ~~.135~~

Ps 301-309 12.880 12.097 12.421 12.818 13.044 13.250 13.340 13.344 13.353

Ps 201-206 13.183 13.233 13.310 13.229 12.965 12.971

Ps 207-212 12.694 12.745 12.777 12.753 12.698 12.634

Ps 213-224 14.203 12.708 12.304 12.067 12.137 12.631 12.804 12.865 12.881 13.522 ~~13.553~~ 13.459

Ps 225-236 14.376 ~~13.489~~ 12.160 ~~11.785~~ 11.661 11.905 12.469 14.532 12.577 13.213 13.528 13.753

Ps 237-245 14.957 14.385 13.374 12.852 12.757 13.370 13.120 12.963 12.940

Pev = 13.148 L = .0232 Pev = 12.717 Ptc/Pev = 1.131 Wc = 1.67 T = 83. B = 29.98

| Pt/Pto | 131-144 | 145-150 | 151-156 | 157-162 | 163-168 | 169-174 | 175-180 | 181-186 | 187-192 | 193-198 | 199-204 | 205-210 | 211-216 | 217-222 | 223-228 | 229-234 | 235-240 | 241-246 | 247-252 | 253-258 | 259-264 | 265-270 | 271-276 | 277-282 | 283-288 | 289-294 | 295-300 | 301-306 | 307-312 | 313-318 | 319-324 | 325-330 | 331-336 | 337-342 | 343-348 | 349-354 | 355-360 | 361-366 | 367-372 | 373-378 | 379-384 | 385-390 | 391-396 | 397-402 | 403-408 | 409-414 | 415-420 | 421-426 | 427-432 | 433-438 | 439-444 | 445-450 | 451-456 | 457-462 | 463-468 | 469-474 | 475-480 | 481-486 | 487-492 | 493-498 | 499-504 | 505-510 | 511-516 | 517-522 | 523-528 | 529-534 | 535-540 | 541-546 | 547-552 | 553-558 | 559-564 | 565-570 | 571-576 | 577-582 | 583-588 | 589-594 | 595-600 | 601-606 | 607-612 | 613-618 | 619-624 | 625-630 | 631-636 | 637-642 | 643-648 | 649-654 | 655-660 | 661-666 | 667-672 | 673-678 | 679-684 | 685-690 | 691-696 | 697-702 | 703-708 | 709-714 | 715-720 | 721-726 | 727-732 | 733-738 | 739-744 | 745-750 | 751-756 | 757-762 | 763-768 | 769-774 | 775-780 | 781-786 | 787-792 | 793-798 | 799-804 | 805-810 | 811-816 | 817-822 | 823-828 | 829-834 | 835-840 | 841-846 | 847-852 | 853-858 | 859-864 | 865-870 | 871-876 | 877-882 | 883-888 | 889-894 | 895-900 | 901-906 | 907-912 | 913-918 | 919-924 | 925-930 | 931-936 | 937-942 | 943-948 | 949-954 | 955-960 | 961-966 | 967-972 | 973-978 | 979-984 | 985-990 | 991-996 | 997-1002 | 1003-1008 | 1009-1014 | 1015-1020 | 1021-1026 | 1027-1032 | 1033-1038 | 1039-1044 | 1045-1050 | 1051-1056 | 1057-1062 | 1063-1068 | 1069-1074 | 1075-1080 | 1081-1086 | 1087-1092 | 1093-1098 | 1099-1104 | 1105-1110 | 1111-1116 | 1117-1122 | 1123-1128 | 1129-1134 | 1135-1140 | 1141-1146 | 1147-1152 | 1153-1158 | 1159-1164 | 1165-1170 | 1171-1176 | 1177-1182 | 1183-1188 | 1189-1194 | 1195-1200 | 1201-1206 | 1207-1212 | 1213-1218 | 1219-1224 | 1225-1230 | 1231-1236 | 1237-1242 | 1243-1248 | 1249-1254 | 1255-1260 | 1261-1266 | 1267-1272 | 1273-1278 | 1279-1284 | 1285-1290 | 1291-1296 | 1297-1302 | 1303-1308 | 1309-1314 | 1315-1320 | 1321-1326 | 1327-1332 | 1333-1338 | 1339-1344 | 1345-1350 | 1351-1356 | 1357-1362 | 1363-1368 | 1369-1374 | 1375-1380 | 1381-1386 | 1387-1392 | 1393-1398 | 1399-1404 | 1405-1410 | 1411-1416 | 1417-1422 | 1423-1428 | 1429-1434 | 1435-1440 | 1441-1446 | 1447-1452 | 1453-1458 | 1459-1464 | 1465-1470 | 1471-1476 | 1477-1482 | 1483-1488 | 1489-1494 | 1495-1500 | 1501-1506 | 1507-1512 | 1513-1518 | 1519-1524 | 1525-1530 | 1531-1536 | 1537-1542 | 1543-1548 | 1549-1554 | 1555-1560 | 1561-1566 | 1567-1572 | 1573-1578 | 1579-1584 | 1585-1590 | 1591-1596 | 1597-1602 | 1603-1608 | 1609-1614 | 1615-1620 | 1621-1626 | 1627-1632 | 1633-1638 | 1639-1644 | 1645-1650 | 1651-1656 | 1657-1662 | 1663-1668 | 1669-1674 | 1675-1680 | 1681-1686 | 1687-1692 | 1693-1698 | 1699-1704 | 1705-1710 | 1711-1716 | 1717-1722 | 1723-1728 | 1729-1734 | 1735-1740 | 1741-1746 | 1747-1752 | 1753-1758 | 1759-1764 | 1765-1770 | 1771-1776 | 1777-1782 | 1783-1788 | 1789-1794 | 1795-1800 | 1801-1806 | 1807-1812 | 1813-1818 | 1819-1824 | 1825-1830 | 1831-1836 | 1837-1842 | 1843-1848 | 1849-1854 | 1855-1860 | 1861-1866 | 1867-1872 | 1873-1878 | 1879-1884</ |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|

Run 8-15 C1 I1 S0 B1 Eng 2 $\alpha=4^\circ$ $\beta=-10^\circ$ $m/m^* = .640$ 0.662

| | | | | | | | | | | | | | |
|----------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-----------------|-------------------|-----------------|-----------------|
| Pt/Ito 131-144 | .997 | .998 | .999 | .991 | .987 | .999 | 1.000 | .999 | .997 | .993 | .983 | .979 | .981 |
| Cp 330-344 | .967 | .241 | .576 | .532 | .389 | .337 | .304 | .646 | .794 | .707 | .601 | .922 | .446 |
| Pt/Pto 101-130 | | | | | | | | | | | | | |
| .961 | .936 | .975 | .977 | 1.000 | 1.000 | .999 | .947 | .983 | .959 | | | | |
| 1.000 | 1.000 | 1.000 | .957 | .982 | .965 | 1.000 | 1.000 | 1.000 | .979 | | | | |
| .986 | .976 | 1.000 | 1.000 | 1.000 | .992 | .997 | .998 | 1.000 | 1.000 | | | | |
| Ptc = 14.744 | Ptc/Pto = .986 | K = .6649 | | | | | | | | | | | |
| Cp 310-320 | .700 | .740 | .467 | .255 | .122 | .123 | .257 | .260 | .203 | .223 | .198 | | |
| Cp 321-329 | .035 | .824 | .956 | .804 | .693 | .429 | .447 | .027 | .107 | | | | |
| Ps 301-309 | 11.844 | 11.147 | 11.834 | 12.290 | 12.661 | 13.041 | 13.144 | 13.123 | 13.163 | | | | |
| Ps 201-205 | 13.039 | 13.109 | 13.162 | 13.031 | 12.809 | 12.810 | | | | | | | |
| Ps 207-212 | 12.513 | 12.576 | 12.621 | 12.576 | 12.516 | 12.451 | | | | | | | |
| Ps 213-224 | 13.977 | 12.333 | 11.096 | 11.627 | 11.714 | 12.355 | 12.512 | 12.590 | 12.625 | 13.342 | 13.377 | 13.306 | |
| Ps 225-236 | 13.023 | 11.745 | 10.896 | 10.916 | 11.177 | 11.642 | 11.911 | 11.521 | 12.205 | 12.864 | 13.212 | 13.429 | |
| Ps 237-245 | 14.952 | 14.375 | 13.314 | 12.730 | 12.593 | 13.237 | 13.005 | 12.746 | 12.742 | | | | |
| Pcw = 13.002 | L = .0240 | Fcb = 12.542 | Ptc/Fcw = 1.134 | Wc = 1.67 | T = 84. | B = 29.97 | | | | | | | |

Run 6-16 C1 I1 S0 A1 20g 2 $\alpha = -4^\circ$ $\beta = -10^\circ$ $m/m^* = 0.662$

| | | | | | | | | | | | | | |
|----------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|--------|-------------------|-----------------|-------|
| Pt/Pto 131-144 | .977 | .999 | .999 | .993 | .989 | .779 | 1.000 | 1.000 | .999 | .935 | .990 | .977 | .981 |
| Cp 330-344 | .969 | -.059 | -.398 | -.377 | -.280 | .419 | -.137 | -.473 | -.654 | -.609 | -.533 | -.927 | -.735 |
| Pt/Pto 101-130 | | | | | | | | | | | | | |
| .961 | .942 | .978 | .971 | 1.000 | 1.000 | .999 | .956 | .985 | .969 | | | | |
| 1.000 | 1.000 | 1.000 | .988 | .985 | .973 | 1.000 | 1.000 | 1.000 | .984 | | | | |
| .991 | .986 | 1.000 | 1.000 | 1.000 | .990 | .999 | .999 | 1.000 | 1.000 | | | | |
| Ptc = 14.780 | Ptc/Pto = .980 | K = .0595 | | | | | | | | | | | |
| Cp 310-320 | .578 | .602 | .622 | .432 | .298 | .036 | -.154 | -.167 | -.168 | -.169 | -.148 | | |
| Cp 321-329 | .280 | .959 | .911 | .743 | .639 | .599 | .266 | .086 | .013 | | | | |
| Ps 301-309 | 12.180 | 11.244 | 11.920 | 12.391 | 12.735 | 13.080 | 13.183 | 13.173 | 13.199 | | | | |
| Ps 201-206 | 13.076 | 13.147 | 13.189 | 13.119 | 12.850 | 12.851 | | | | | | | |
| Ps 207-212 | 12.559 | 12.615 | 12.652 | 12.617 | 12.560 | 12.496 | | | | | | | |
| Ps 213-224 | 13.694 | 12.039 | 11.607 | 11.490 | 11.624 | 12.377 | 12.503 | 12.602 | 12.648 | 13.387 | 13.379 | 13.344 | |
| Ps 225-236 | 13.286 | 11.985 | 11.011 | 10.987 | 11.164 | 11.625 | 11.965 | 14.560 | 12.302 | 12.940 | 13.265 | 13.476 | |
| Ps 237-245 | 14.953 | 14.408 | 13.380 | 12.808 | 12.667 | 13.293 | 13.059 | 12.803 | 12.793 | | | | |
| Pcv = 13.039 | L = .0229 | Pcb = 12.583 | Ptc/Pcv = 1.134 | Mc = 1.67 | T = 84. | B = 29.97 | | | | | | | |

Run 8-17 C1 IL S0 B1 Ekg 2 $\alpha = -4^\circ$ $\beta = -4^\circ$ $m/m^* = \frac{4}{10} = 0.660$

| | | | | | | | | | | | | | |
|----------------|------------------|-------------------|------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|
| Pt/Pto 131-144 | 1.000 | 1.000 | 1.000 | .993 | .989 | 1.000 | 1.000 | 1.000 | 1.000 | .995 | .990 | 1.000 | .992 |
| Cp 330-344 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Pt/Pto 101-130 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Pt = 14.843 | Ptc/Pto = .992 | K = .0374 | | | | | | | | | | | |
| Cp 310-320 | .776 | .933 | .704 | .488 | .347 | .075 | -.101 | -.104 | -.110 | -.112 | -.092 | | |
| Cp 321-329 | .779 | .985 | .743 | .520 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | |
| Ps 301-309 | 12.541 | 11.839 | 12.303 | 12.670 | 12.933 | 13.215 | 13.326 | 13.323 | 13.337 | | | | |
| Ps 201-206 | 13.188 | 13.240 | 13.289 | 13.225 | 12.963 | 12.972 | | | | | | | |
| Ps 207-212 | 12.698 | 12.745 | 12.778 | 12.755 | 12.699 | 12.639 | | | | | | | |
| Ps 213-224 | 13.850 | 12.278 | 11.922 | 11.757 | 11.384 | 12.556 | 12.687 | 12.771 | 12.810 | 13.512 | 13.501 | 13.456 | |
| Ps 225-236 | 13.916 | 12.693 | 11.503 | 11.272 | 11.307 | 11.553 | 12.277 | 14.519 | 12.490 | 13.194 | 13.475 | 13.555 | |
| Ps 237-245 | 14.952 | 14.420 | 13.440 | 12.913 | 12.798 | 13.395 | 13.193 | 12.959 | 12.935 | | | | |
| Pcw = 13.147 | L = .0216 | Pcb = 12.719 | Ptc/Pcw = 1.129 | Wc = 1.66 | T = 85. | B = 29.97 | | | | | | | |

Run 8-18 C1 I1 S0 B1 Eng 2 $\alpha = -4^\circ$ $\beta = 4^\circ$ $m/m^* = .610$ 0.666

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ .993 .390 .999 1.000 .999 ~~.996~~ .994 .988 ~~.981~~ .982

Cp 330-344

~~1.000~~ -.353 -.528 -.108 -.324 .491 -.007 -.449 -.639 -.597 -.516 -.451 -.846 -.388 -.644

Pt/Pto 101-130

.971 .965 .379 .958 1.000 1.000 1.000 1.000 1.000 .963
1.000 1.000 1.000 1.000 .974 1.000 1.000 1.000 1.000 1.000
1.000 .994 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.869 Ptc/Pto = .994 K = .0423

Cp 310-320

.895 .384 .714 .479 .330 .056 -.103 -.147 -.132 -.119

Cp 321-329

.971 .727 .310 .021 ~~.618~~ ~~.186~~ -.158 ~~.181~~

Ps 301-309 13.046 12.267 12.799 13.082 13.227 13.315 13.409 13.413 13.416

Ps 201-206 13.253 13.299 13.373 13.297 13.042 13.050

Ps 207-212 12.785 12.634 12.655 12.844 12.792 12.726

Ps 213-224 13.920 12.540 12.210 12.065 12.178 12.733 12.875 12.939 12.951 13.579 ~~13.568~~ 13.512

Ps 225-236 14.549 ~~13.586~~ 12.481 ~~12.684~~ 11.908 ~~12.138~~ 12.613 ~~14.522~~ 12.698 13.284 13.587 13.806

Ps 237-245 14.951 14.402 13.435 12.938 12.650 13.429 13.262 13.040 13.018

Pev = 13.219 L = .0223 Feb = 12.808 Ptc/Fev = 1.125 Wc = 1.64 T = 85. B = 29.97

Run 8-19 C1 I1 S0 B1 Eng 2 $\alpha = -4^\circ$ $\beta = 10^\circ$ $m/\pi = .610$ 0.662

Pt/Pto 131-144

~~.998~~ 1.000 .993 ~~.997~~ .993 .999 .999 .998 ~~.997~~ .993 .985 ~~.980~~ .981

Cp 330-344

~~.998~~ -.558 -.733 -.603 -.437 .439 -.114 -.480 -.655 -.616 -.540 -.492 -.324 -.447 -.703

Pt/Pto 101-130

.974 .988 .989 .356 1.000 1.000 1.000 1.000 1.000 .972
 .999 1.000 1.000 1.000 .990 1.000 1.000 1.000 1.000
 1.000 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.886 Ptc/Pto = .935 K = .0443

Cp 310-320

.845 .924 .655 .419 .262 -.009 -.165 -.170 -.228 -.214 -.213

Cp 321-329

.774 .348 -.101 -.260 ~~.287~~ ~~.357~~ ~~.334~~ -.271 ~~.254~~

Ps 301-309 13.936 12.535 13.106 13.285 13.344 13.330 13.396 13.401 13.393

Ps 201-206 13.235 13.282 13.358 13.288 13.025 13.033

Ps 207-212 12.766 12.814 12.846 12.825 12.773 12.707

Ps 213-224 14.014 12.625 12.311 12.178 12.281 12.784 12.935 12.986 12.997 13.570 ~~13.592~~ 13.502

Ps 225-236 14.775 ~~14.072~~ 12.997 ~~12.540~~ 12.246 ~~12.450~~ 12.726 ~~14.502~~ 12.787 13.296 13.591 13.823

Ps 237-245 14.949 14.367 13.371 12.877 12.802 13.401 13.242 13.024 13.001

Pcw = 13.203 L = .0224 Pcb = 12.788 Ptc/Pcw = 1.128 Wc = 1.65 T = 86. B = 29.97

Run 8-20 C1 I1 S0 B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^* = .610$ 0.663

Pt/Pto 131-144

~~.999~~ 1.000 .999 ~~1.000~~ .992 .989 .999 1.000 .999 .997 .993 .988 ~~.981~~ .982

Cp 330-344

~~.999~~ -.289 -.554 -.456 -.283 .447 -.187 -.530 -.707 -.649 -.545 -.454 -.822 -.378 -.631

Pt/Pto 101-130

.971 .980 .973 .961 1.000 1.000 1.000 1.000 .994 .959
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
1.000 .986 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.853 Ptc/Pto = .993 K = .0413

Cp 310-320

.907 .933 .646 .416 .273 .009 -.120 -.116 -.130 -.112 -.065

Cp 321-329

.915 .933 .626 .399 ~~.495~~ ~~.696~~ -.055 ~~-.119~~

Ps 301-309 12.746 12.073 12.471 12.795 13.027 13.267 13.271 13.382 13.386

Ps 201-206 13.222 13.275 13.335 13.257 13.012 13.017

Ps 207-212 12.749 12.797 12.826 12.807 12.752 12.689

Ps 213-224 14.064 12.552 12.176 11.975 12.074 12.641 12.791 12.659 12.889 13.551 ~~13.561~~ 13.491

Ps 225-236 14.182 ~~13.637~~ 11.923 ~~11.508~~ 11.539 ~~11.786~~ 12.436 ~~14.552~~ 12.575 13.239 13.546 13.747

Ps 237-245 14.952 14.422 12.454 12.942 12.635 13.415 13.234 13.007 12.964

Pcw = 13.169 L = .0217 Pcb = 12.770 Ptc/Pcw = 1.126 Wc = 1.64 T = 87. E = 29.97

Run 9-1 C1 I1 S0 B1 Eng 2 020° 820° m/m² = .677 0.732

Pt/Pto 131-144

~~996~~ 1.000 .999 ~~1.000~~ .992 .988 .999 1.000 .999 ~~999~~ .993 .987 ~~979~~ .981

Cp 330-344

~~997~~ .303 -.576 -.485 -.325 .444 -.188 -.556 -.737 -.676 -.588 -.550 -1.072 -.457 -.831

Pt/Ptc 101-130

.959 .974 .962 .953 1.000 1.000 1.000 1.000 .982 .949
1.000 1.000 1.000 1.000 .959 1.000 1.000 1.000 1.000 1.000
1.000 .979 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.815 Ptc/Pto = .990 K = .0517

Cp 310-330

.733 .993 .772 .519 .363 .075 -.100 -.107 -.123 -.112 -.084

Cp 321-329

.786 .993 .755 .488 ~~.375~~ ~~.149~~ ~~.025~~ -.045 ~~.114~~

Ps 301-309 12.071 11.116 11.586 12.044 12.390 12.768 12.900 12.901 12.908

Ps 201-206 12.687 12.749 12.924 12.741 12.417 12.418

Ps 207-212 12.053 12.119 12.160 12.127 12.051 11.969

Ps 213-224 13.606 11.741 11.282 11.025 11.140 11.958 12.121 12.216 12.256 13.124 ~~13.137~~ 13.043

Ps 225-236 13.793 ~~12.988~~ 10.968 ~~10.515~~ 10.442 ~~10.744~~ 11.656 ~~11.523~~ 11.865 12.735 13.107 13.338

Ps 237-245 14.948 14.248 12.982 12.303 12.167 12.938 12.710 12.413 12.386

Pw = 12.639 L = .0275 Pcb = 12.080 Ptc/Pw = 1.172 Wc = 1.83 T = 87. B = 29.97

49.982

069 -.440 -.827

000-1
000-1
056.

580-

-095

一

12.916

12.438

11.990

~~13.055~~ 13.055

12.133 13.372

12.406

87. $B = 29.97$

Run 9-3 C1 I1 S0 B1 Eng 2 $\alpha = -10^\circ$ $\rho = 0^\circ$ $m/m' = .677$ 0.732

Pt/Pto 131-144

~~.999~~ 1.000 1.000 ~~.999~~ .995 .991 .999 1.000 .999 ~~.997~~ .996 .990 ~~.989~~ .982

Cp 330-344

~~.989~~ -.163 -.427 -.394 -.288 .560 .044 -.302 -.510 -.508 -.460 -.491 -1.060 -.402 -.813

Pt/Pto 101-130

.953 .972 .964 .953 1.000 1.000 .999 1.000 .990 .952
1.000 1.000 1.000 1.000 .999 .966 1.000 1.000 1.000 1.000
1.000 .988 1.000 1.000 1.000 1.000 .999 1.000 .999 1.000

Ptc = 14.823 Ptc/Pto = .991 K = .0479

Cp 310-320

.382 .957 .895 .697 .550 .254 -.000 -.025 -.069 -.080 -.079

Cp 321-329

.824 .865 .544 .290 ~~.124~~ ~~.020~~ ~~.135~~ ~~.130~~ ~~.152~~

Ps 301-309 12.440 11.280 11.850 12.266 12.566 12.798 12.924 12.926 12.934

Ps 201-206 12.717 12.779 12.857 12.773 12.449 12.452

Ps 207-212 12.090 12.157 12.198 12.165 12.090 12.008

Ps 213-224 13.159 11.343 10.991 10.877 11.050 11.977 12.132 12.240 12.287 13.151 ~~13.155~~ 13.068

Ps 225-236 14.030 ~~12.504~~ 11.256 ~~10.756~~ 10.610 ~~10.968~~ 11.752 ~~14.514~~ 11.919 12.767 13.155 13.408

Ps 237-245 14.947 14.260 13.013 12.345 12.210 12.969 12.742 12.449 12.422

Pcw = 12.671 L = .0275 Pcb = 12.118 Ptc/Pcw = 1.170 Wc = 1.83 T = 87. R = 29.97

Run 9-4 C1 V1 S0 R1 Env 2 $\alpha = 20^\circ$ $\beta = 0^\circ$ m/m' = ~~1.65~~ 0.731

Pt/P₂₀ 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ .998 .994 1.000 1.000 1.000 1.000 ~~1.000~~ .999 .993 ~~.981~~ .982

Cp 330-344

~~1.000~~ -.032 -.253 -.276 -.232 .698 .310 -.000 -.220 -.269 -.265 -.381 -1.035 -.292 -.765

Pt/P₂₀ 101-130

.948 .973 .963 .953 1.000 1.000 .996 1.000 .997 .959
1.000 1.000 1.000 1.000 .977 1.000 1.000 1.000 1.000
.999 .996 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Pt₂ = 14.838 Pt_c/P₂₀ = .992 K = .0526

Cp 310-320

-.231 .835 .986 .870 .750 .469 .151 .107 .034 .003 -.032

Cp 321-329

.782 .706 .320 .055 ~~.041~~ ~~.227~~ ~~.332~~ -.291 ~~.243~~

Ps 301-309 12.736 11.363 12.039 12.489 12.726 12.819 12.943 12.945 12.953

Ps 201-206 12.731 12.802 12.892 12.794 12.468 12.473

Ps 207-212 12.112 12.178 12.221 12.183 12.112 12.032

Ps 213-224 12.552 10.848 10.638 10.683 10.902 11.958 12.125 12.246 12.300 13.170 ~~12.170~~ 13.091

Ps 225-236 14.167 ~~12.906~~ 11.471 ~~12.939~~ 10.746 ~~11.634~~ 11.617 ~~11.514~~ 11.962 12.788 13.178 13.444

Ps 237-245 14.950 14.270 13.033 12.371 12.236 12.988 12.761 12.470 12.441

P₂₀ = 12.693 L = .0285 P₂₀ = 12.141 Pt_c/P₂₀ = 1.169 W₂ = 1.63 T = 87. R = 29.98

Run 9-5 C1 I1 S0 R1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ $m/m^2 = .627$ 0.732

Pt/Pto 131-144

~~.994~~ .999 .998 ~~.999~~ .991 .987 .999 .993 .995 ~~.995~~ .991 .985 ~~.990~~ .980

Cp 330-344

~~.994~~ .999 .998 .999 .991 .987 .999 .993 .995 .995 .991 .985 .991 .985 .980

Pt/Pto 101-130

.959 .972 .962 .952 1.000 1.000 1.000 1.000 .980 .948
1.000 1.000 1.000 1.000 .997 .956 1.000 1.000 1.000 1.000
1.000 .974 1.000 1.000 1.000 1.000 .999 1.000 1.000 1.000

Ptc = 14.814 Ptc/Pto = .990 K = .0520

Cp 310-320

.773 .939 .676 .443 .291 .012 .131 .127 .136 .114 .084

Cp 321-329

.672 .979 .777 .550 ~~.455~~ ~~.196~~ ~~.038~~ ~~.123~~

Ps 301-309 11.930 11.031 11.503 11.972 12.338 12.752 12.591 12.890 12.894

Ps 201-206 12.680 12.741 12.818 12.737 12.409 12.412

Ps 207-212 12.038 12.107 12.149 12.118 12.040 11.959

Ps 213-224 13.757 11.886 11.392 11.085 11.179 11.955 12.125 12.217 12.252 13.118 ~~13.135~~ 13.038

Ps 225-236 13.682 ~~12.297~~ 10.855 ~~10.444~~ 10.397 ~~10.607~~ 11.617 ~~10.506~~ 11.856 12.726 13.086 13.315

Ps 237-245 14.959 14.250 12.971 12.288 12.149 12.024 12.700 12.401 12.377

Pw = 12.633 L = .0276 Pcb = 12.069 Ptc/Pw = 1.173 Wc = 1.84 T = 87. R = 29.99

Run 3-6 C1 I1 S0 R1 Eng 2 $\alpha=10^\circ$ $\rho=0^\circ$ $m/m^2 = 6.77$ 0.731

Pt/Pto 121-144

~~.999~~ .993 .995 ~~.999~~ .989 .986 .999 .998 .995 ~~.999~~ .989 .983 ~~.977~~ .980

Cp 330-344

~~.942~~ -.418 -.577 -.530 -.340 .350 -.363 -.721 -.958 -.045 -.516 -.529 -1.033 -.448 -.799

Pt/Pto 101-130

.962 .966 .963 .952 1.000 1.000 1.000 .922 .979 .943
1.000 1.000 .999 .995 .952 1.000 1.000 1.000 1.000 1.000
1.000 .967 1.000 1.000 1.000 1.000 .998 1.000 1.000 1.000

Pto = 14.815 Pto/Pto = .989 K = .0531

Cp 310-320

.869 .919 .600 .660 .215 -.042 -.141 -.127 -.087 -.054

Cp 321-339

.510 .997 .861 .657 ~~.997~~ ~~.999~~ ~~.951~~ -.038 ~~.944~~

Ps 301-309 11.692 10.824 11.367 11.844 12.232 12.738 12.386 12.984 12.886

Ps 291-296 12.567 12.732 12.808 12.729 12.399 12.399

Ps 297-210 12.017 12.092 12.135 12.105 12.025 11.942

Ps 213-204 13.945 12.081 11.541 11.166 11.219 11.935 12.121 12.207 12.238 13.104 ~~13.150~~ 13.026

Ps 225-236 13.463 ~~12.950~~ 10.672 ~~12.540~~ 10.358 ~~12.405~~ 11.520 ~~14.517~~ 11.837 12.586 13.046 13.282

Ps 237-245 14.769 14.258 12.978 12.271 12.129 12.322 12.682 12.331 12.355

Pto = 12.622 L = .0276 Pto = 12.053 Pto/Pto = 1.174 W = 1.84 T = 86. B = 30.01

Run 9-7 C1 I1 S0 R1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ m/m' = .66 0.731

Pt/Pto 131-144

~~.997~~ .997 .994 ~~.998~~ .988 .986 .998 .997 .994 .992 .988 .983 ~~---~~ .979

Cp 330-344

~~---~~ .517 -.731 -.543 -.369 .276 -.473 -.615 -.297 -.734 -.589 -.487 -1.020 -.424 -.800

Pt/Pto 101-130

.963 .644 .950 .953 .999 1.000 1.000 .968 .962 .951
1.000 1.000 1.000 .981 .978 .993 1.000 1.000 1.000 .995
.995 .980 1.000 1.000 1.000 1.000 .999 1.000 1.000 1.000

Pto = 14.605 Ptc/Pto = .986 K = .0570

Cp 310-320

.883 .808 .481 .258 .127 -.093 -.124 -.097 -.098 ~~-.056~~ -.049

Cp 321-329

.013 .847 .867 .738 .623 .343 .031 -.111 -.244

Ps 301-309 11.566 10.766 10.882 11.202 11.610 12.504 12.625 12.610 12.619

Ps 201-206 ~~11.395~~ 12.474 12.556 ~~11.443~~ 12.112 12.123

Ps 207-212 11.724 11.794 11.847 11.809 11.724 11.638

Ps 213-224 13.965 12.110 11.517 11.043 11.043 11.685 11.896 11.970 11.990 11.848 ~~11.848~~ 12.772

Ps 225-236 12.933 ~~13.167~~ 10.233 10.014 10.293 11.674 11.204 ~~11.175~~ 11.587 12.364 12.738 12.990

Ps 237-245 14.805 14.033 12.675 11.958 11.812 12.643 12.414 12.088 12.077

Pav = 12.355 L = .0302 Pab = 11.756 Ptc/Pav = 1.182 W = 1.88 T = 69. R = 29.68

Run 9-8 C1 I1 S0 R1 Eng 2 0=0° A=4° m/m° = ~~0.677~~ 0.731

| | | | | | | | | | | | | |
|----------------|-------------------|-------------------|-----------------|-------------------|-----------------|-----------------|-----------------|-------------------|-----------------|------------------|-------------------|-----------------|
| Pt/Pto 131-144 | .999 | .999 | .992 | .988 | .999 | 1.000 | .999 | .998 | .993 | .988 | .978 | .980 |
| Cp 330-344 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 |
| | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 |
| Pt/Pto 101-130 | .953 | .952 | .971 | .958 | 1.000 | 1.000 | .999 | .985 | .979 | .953 | | |
| | 1.000 | 1.000 | 1.000 | .996 | .989 | .954 | 1.000 | 1.000 | 1.000 | 1.000 | | |
| | .999 | .968 | 1.000 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | 1.000 | | |
| Ptc = 14.644 | Ptc/Pto = .988 | K = .0483 | | | | | | | | | | |
| Cp 310-320 | .618 | .915 | .718 | .498 | .347 | .064 | -.123 | -.128 | -.140 | -.146 | -.103 | |
| Cp 321-329 | .460 | .977 | .876 | .655 | .534 | .285 | .075 | .008 | -.083 | | | |
| Ps 301-309 | 11.542 | 14.413 | 11.145 | 11.673 | 12.065 | 12.504 | 12.444 | 12.620 | 12.620 | 12.620 | | |
| Ps 201-206 | 12.442 | 12.490 | 12.558 | 12.466 | 12.130 | 12.136 | | | | | | |
| Ps 207-212 | 11.741 | 11.812 | 11.965 | 11.828 | 11.736 | 11.653 | | | | | | |
| Ps 213-224 | 13.367 | 11.409 | 10.926 | 10.632 | 10.747 | 11.648 | 11.806 | 11.913 | 11.962 | 12.870 | 13.110 | 12.783 |
| Ps 225-236 | 13.215 | 11.774 | 10.305 | 9.927 | 10.029 | 10.396 | 11.190 | 11.575 | 11.575 | 12.410 | 12.780 | 13.032 |
| Ps 237-245 | 14.804 | 14.040 | 12.698 | 11.988 | 11.844 | 12.671 | 12.439 | 12.118 | 12.094 | | | |
| Pav = 12.365 | L = .0292 | Pcb = 11.773 | Ptc/Pv = 1.184 | Wc = 1.88 | T = 71. | B = 29.68 | | | | | | |

Run 9-9 Cl 11 50 Bl Bag 2 $\alpha=0^\circ$ $\beta=10^\circ$ $m/m^2=.677$

Pt/Pto 131-144

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|
| 666 | 999 | 992 | 988 | 999 | 1.000 | 998 | 994 | 989 | 976 | 979 |
|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|

CP 330-344

| | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|--------|-------|-------|
| -.024 | -.159 | -.502 | -.490 | -.380 | .374 | -.228 | -.577 | -.747 | -.609 | -.606 | -1.175 | -.505 | -.962 |
|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|--------|-------|-------|

Pt/Pto 101-130

| | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| .945 | .916 | .970 | .966 | 1.000 | .999 | .932 | .980 | .957 |
| 1.000 | 1.000 | 1.000 | .945 | .979 | 1.000 | 1.000 | .999 | .965 |
| .985 | .979 | 1.000 | 1.000 | 1.000 | .994 | .998 | 1.000 | 1.000 |

Ptc = 14.553 Ptc/Pto = .982 K = .0854

CP 310-320

| | | | | | | | | |
|------|------|------|------|------|-------|-------|------------------|-------|
| .779 | .621 | .424 | .284 | .009 | -.190 | -.214 | -.191 | -.175 |
|------|------|------|------|------|-------|-------|------------------|-------|

Op 321-329

| | | | | | | | |
|------|------|------|------|------|------|------|-------|
| .862 | .976 | .834 | .723 | .458 | .191 | .082 | -.035 |
|------|------|------|------|------|------|------|-------|

Pp 301-309 11.243 13.679 10.703 11.344 11.673 12.323 12.436 12.381 12.434

Pa 201-206 ~~12.297~~ 12.362 12.429 ~~12.527~~ 11.971 11.974

Pa 207-212 11.554 11.641 11.709 11.649 11.546 11.462

| | | | | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|
| Fe 213-224 | 13.207 | 11.169 | 10.666 | 10.348 | 10.462 | 11.444 | 11.604 | 11.719 | 11.766 | 12.686 | 12.799 | 12.629 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|

| | | | | | | | | | | | | |
|----|---------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pb | 225-236 | 12.484 | 9.753 | 9.675 | 10.026 | 10.548 | 10.913 | 11.374 | 11.293 | 12.073 | 12.513 | 12.806 |
|----|---------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Fe 237-245 | 14.803 | 14.002 | 12.589 | 11.814 | 11.636 | 12.509 | 12.246 | 11.898 | 11.898 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

$P_{ew} = 12.220$ $L = .0315$ $P_{eb} = 11.594$ $P_{tc}/P_{ew} = 1.191$ $W_c = 1.09$ $T = 72.$ $B = 29.68$

蘇
東

1.111 - 1.175 - 1.847

515.

$\text{Ptc} = 14.682$ $\text{Ptc}/\text{Pto} = .991$ $K = .0583$

**-101-
-123-**

-245-

| | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Fr | 301-309 | 12.178 | 11.078 | 11.546 | 11.982 | 12.304 | 12.582 | 12.704 | 12.714 | 12.706 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| PN | 201-206 | 12-169 | 12-537 | 12-644 | 12-544 | 12-102 | 12-203 |
|----|---------|--------|--------|--------|--------|--------|--------|
| 44 | 694-27 | 694-27 | 12-537 | 12-644 | 12-544 | 12-102 | 12-203 |

| | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|
| PH 207-212 | 11.819 | 11.890 | 11.933 | 11.900 | 11.817 | 11.732 |
|------------|--------|--------|--------|--------|--------|--------|

Pa 213-224 13.467 11.600 11.149 10.889 10.998 11.802 11.962 12.052 12.082 12.926 ~~12.926~~ 12.811

| Run | 225-236 | 13.954 | 12.628 | 11.166 | 10.638 | 10.148 | 10.772 | 11.553 | 11.274 | 11.697 | 12.642 | 12.048 | 12.221 |
|-----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4 | 96.3-52 | 13.954 | 12.628 | 11.166 | 10.638 | 10.148 | 10.772 | 11.553 | 11.274 | 11.697 | 12.642 | 12.048 | 12.221 |

PA 237-245 14-804 14-052 12-731 12-042 11-014 12-718 12-512 12-207 12-176

[illegible]

Run 9-11 Cl II SO H1 Br γ 2 $\alpha=0^\circ$ $\beta=10^\circ$ $m/m^*=-.677$ 0.731

Pt/Pto 131-144

| | | | | | | | | | | | | |
|----------------|-------|-----|----------------|-----|-----|-----|-----|-----|-----|-----|----------------|-----|
| 997 | 1.000 | 999 | 999 | 992 | 988 | 966 | 997 | 966 | 991 | 982 | 977 | 980 |
|----------------|-------|-----|----------------|-----|-----|-----|-----|-----|-----|-----|----------------|-----|

CP 330-344

| | | | | | | | | | | | | | | | | |
|--|---|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| | - | .698 | -.582 | -.761 | -.608 | -.435 | .390 | -.211 | -.578 | -.758 | -.701 | -.620 | -.608 | -1.206 | -.525 | -.895 |
|--|---|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|--------|-------|-------|

Pt/Pto 101-130

| Variable | Mean | SD | Min | Max | Skewness | Kurtosis | Normality |
|-------------------------------|-------|-------|-------|-------|----------|----------|-----------|
| Age | 38.5 | 12.5 | 18 | 65 | 0.1 | 3.0 | 0.95 |
| Gender | 1.5 | 0.5 | 1 | 2 | 0.0 | 3.0 | 0.99 |
| Marital Status | 2.5 | 1.0 | 1 | 4 | 0.2 | 3.2 | 0.98 |
| Education | 12.5 | 2.5 | 9 | 16 | 0.3 | 3.1 | 0.97 |
| Income | 45000 | 15000 | 20000 | 80000 | 0.4 | 3.3 | 0.96 |
| Health | 3.5 | 1.0 | 1 | 5 | 0.1 | 3.0 | 0.99 |
| Stress | 4.0 | 1.5 | 1 | 6 | 0.2 | 3.1 | 0.98 |
| Life Satisfaction | 3.0 | 1.0 | 1 | 5 | 0.1 | 3.0 | 0.99 |
| Resilience | 3.5 | 1.0 | 1 | 5 | 0.1 | 3.0 | 0.99 |
| Optimism | 3.0 | 1.0 | 1 | 5 | 0.1 | 3.0 | 0.99 |
| Emotional Stability | 3.5 | 1.0 | 1 | 5 | 0.1 | 3.0 | 0.99 |
| Self-Esteem | 3.0 | 1.0 | 1 | 5 | 0.1 | 3.0 | 0.99 |
| Life Satisfaction (Control) | 3.0 | 1.0 | 1 | 5 | 0.1 | 3.0 | 0.99 |
| Resilience (Control) | 3.5 | 1.0 | 1 | 5 | 0.1 | 3.0 | 0.99 |
| Optimism (Control) | 3.0 | 1.0 | 1 | 5 | 0.1 | 3.0 | 0.99 |
| Emotional Stability (Control) | 3.5 | 1.0 | 1 | 5 | 0.1 | 3.0 | 0.99 |
| Self-Esteem (Control) | 3.0 | 1.0 | 1 | 5 | 0.1 | 3.0 | 0.99 |

Ptc = 14.696 Ptc/Pto = .992 K = .0629

CP 310-320

| | | | | | | | | | | |
|------|------|------|------|------|------|-------|-------|-------|-------------------|-------|
| .712 | .971 | .621 | .492 | .322 | .022 | -.148 | -.152 | -.205 | - .186 | -.176 |
|------|------|------|------|------|------|-------|-------|-------|-------------------|-------|

CP 321-329

| | | | | | | | | |
|------|------|------|------|--------|--------|--------|--------|--------|
| .949 | .668 | .220 | .015 | --.051 | --.181 | --.212 | --.177 | --.165 |
|------|------|------|------|--------|--------|--------|--------|--------|

Pa 301-309 12.376 11.187 11.857 12.272 12.487 12.583 12.694 12.702 12.709

Pa 201-206 ~~12.469~~ 12.534 12.643 ~~12.757~~ 12.191 12.205

Fe 207-212 11.820 11.889 11.934 11.900 11.820 11.733

| | | | | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Fe 213-224 | 13.476 | 11.678 | 11.245 | 11.007 | 11.112 | 11.861 | 12.023 | 12.097 | 12.116 | 12.938 | 12.943 | 12.844 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | | |
|----|---------|--------|-------------------|--------|--------|--------|--------|--------|-------------------|--------|--------|--------|--------|
| Pa | 225-236 | 14.333 | 13.910 | 11.782 | 11.186 | 10.844 | 11.142 | 11.702 | 11.369 | 11.788 | 12.556 | 12.961 | 13.262 |
|----|---------|--------|-------------------|--------|--------|--------|--------|--------|-------------------|--------|--------|--------|--------|

| | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Fe | 237-245 | 14.806 | 14.081 | 12.756 | 12.054 | 11.919 | 12.716 | 12.515 | 12.211 | 12.180 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

$P_{ev} = 12.430$ $L = .0308$ $P_{eb} = 11.849$ $P_{tc}/P_{ev} = 1.182$ $W_c = 1.88$ $T = 75.$ $B = 29.67$

Run 9-12 C1 I1 S0 B1 Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ $m/m^*=.677$ 0.731

Pt/Pto 131-144

~~.996~~ 1.000 .999 ~~.999~~ .991 .987 .998 .998 .997 .995 .990 .981 ~~.976~~ .979

Cp 330-344

~~.696~~ -.594 -.772 -.594 -.402 .338 -.296 -.662 -.826 -.747 -.649 -.615 -1.206 -.521 -.874

Pt/Pto 101-130

.965 .983 .937 .999 1.000 1.000 1.000 1.000 1.000 .948
1.000 1.000 1.000 1.000 .962 1.000 1.000 1.000 1.000
1.000 .990 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.695 Ptc/Pto = .992 K = .0637

Cp 310-320

.830 .970 .715 .435 .271 -.012 -.151 -.142 -.186 ~~-.158~~ -.135

Cp 321-329

.957 .790 .369 .132 .054 -.090 -.142 -.124 -.137

Pa 301-309 12.337 11.139 11.727 12.154 12.415 12.573 12.686 12.688 12.703

Pa 201-206 ~~12.461~~ 12.527 12.636 ~~12.531~~ 12.184 12.198

Pa 207-212 11.812 11.882 11.926 11.890 11.812 11.724

Pa 213-224 13.616 11.808 11.339 11.051 11.134 11.840 12.012 12.083 12.100 12.931 ~~12.944~~ 12.837

Pa 225-236 14.251 ~~13.078~~ 11.642 11.066 10.750 11.056 11.663 ~~14.368~~ 11.755 12.543 12.951 13.252

Pa 237-245 14.805 14.095 12.772 12.062 11.919 12.712 12.508 12.203 12.172

Ptcv = 12.423 L = .0307 Ptcv = 11.841 Ptc/Ptcv = 1.183 Wc = 1.88 T = 76. B = 29.67

Num 9-13 C1 I1 S0 B1 Eng 2 $\alpha=4^\circ$ $\beta=4^\circ$ $\frac{m}{m^*}=.677$ 0.731

[illegible]

Run 9-14 C1 I1 S0 B1 Eng 2 $\alpha=4^\circ$ $\beta=-4^\circ$ $m/m^*=-.677$ 0.732

Pt/Pto 131-144

~~.995~~ .999 .998 ~~.999~~ .991 .987 .999 1.000 .999 .996 .992 .986 ~~.977~~ .980

Cp 330-344

~~.999~~ -.301 -.603 -.517 -.357 .385 -.281 -.645 -.806 -.726 -.623 -.570 -1.090 -.479 -.871

Pt/Pto 101-130

.953 .947 .972 .959 1.000 1.000 1.000 .974 .979 .952
1.000 1.000 1.000 .990 .987 .950 1.000 1.000 .999
.998 .962 1.000 1.000 1.000 1.000 .996 .999 1.000

Ptc = 14.615 Ptc/Pto = .987 K = .0537

Cp 310-320

.672 .878 .672 .422 .275 -.000 -.155 -.159 -.165 ~~-.140~~ -.110

Cp 321-329

.373 .966 .891 .699 .577 .319 .085 -.000 -.105

Ps 301-309

11.346 14.277 11.062 11.618 12.029 12.483 12.645 12.617 12.622

Ps 201-206

~~12.449~~ 12.498 12.565 ~~12.475~~ 12.139 12.146

Ps 207-212

11.755 11.825 11.877 11.846 11.752 11.669

Ps 213-224

13.504 11.552 11.037 10.693 10.787 11.641 11.807 11.908 11.952 12.865 ~~12.860~~ 12.785

Ps 225-236

13.076 ~~11.573~~ 10.224 9.900 10.061 10.451 11.141 ~~14.359~~ 11.564 12.381 12.759 13.011

Ps 237-245

14.798 14.069 12.754 12.034 11.876 12.679 12.443 12.122 12.100

Pev = 12.374 L = .0291 Pev = 11.788 Ptc/Pev = 1.181 Wc = 1.86 T = 77. B = 29.66

Run 9-15 C1 IL SO BL Eng 2 $\alpha=4^\circ$ $\beta=-10^\circ$ $m/m^*=-.677$ 0.732

| | | | | | | | | | | | | | |
|----------------|-------------------|-------------------|------------------|-------------------|---------|------------------|------------------|-------------------|------------------|------------------|-------------------|------------------|------------------|
| Pt/Pto 131-144 | .999 | -.999 | .991 | .987 | .999 | 1.000 | .999 | .997 | .992 | .987 | .976 | .979 | |
| Cp 330-344 | -.257 | -.595 | -.564 | -.440 | .326 | -.318 | -.664 | -.820 | -.739 | -.641 | -.613 | -.529 | -.974 |
| Pt/Pto 101-130 | | | | | | | | | | | | | |
| .946 | .914 | .968 | .971 | 1.000 | 1.000 | .999 | .928 | .978 | .961 | | | | |
| 1.000 | 1.000 | 1.000 | .940 | .976 | .953 | 1.000 | 1.000 | 1.000 | .958 | | | | |
| .980 | .969 | 1.000 | 1.000 | 1.000 | .989 | .996 | .997 | .999 | 1.000 | | | | |
| Ptc = 14.520 | Ptc/Pto = .981 | K = .0875 | | | | | | | | | | | |
| Cp 310-320 | .492 | .751 | .549 | .335 | .194 | -.072 | -.242 | -.259 | -.286 | -.222 | -.204 | | |
| Cp 321-329 | -.360 | .809 | .971 | .845 | .736 | .464 | .168 | .040 | -.093 | | | | |
| Ps 301-309 | 11.042 | 13.834 | 10.729 | 11.323 | 11.824 | 12.315 | 12.426 | 12.381 | 12.426 | | | | |
| Ps 201-206 | 12.261 | 12.358 | 12.431 | 12.328 | 11.972 | 11.974 | | | | | | | |
| Ps 207-212 | 11.557 | 11.651 | 11.721 | 11.651 | 11.551 | 11.467 | | | | | | | |
| Ps 213-224 | 13.370 | 11.350 | 10.818 | 10.452 | 10.538 | 11.453 | 11.620 | 11.728 | 11.766 | 12.672 | 12.676 | 12.624 | |
| Ps 225-236 | 12.334 | 12.833 | 9.714 | 9.707 | 10.059 | 10.567 | 10.889 | 11.361 | 11.254 | 12.049 | 12.501 | 12.787 | |
| Ps 237-245 | 14.790 | 13.992 | 12.579 | 11.804 | 11.627 | 12.496 | 12.232 | 11.887 | 11.902 | | | | |
| Pev = 12.221 | L = .0316 | Peo = 11.600 | Ptc/Peo = 1.188 | Wc = 1.87 | T = 78. | B = 29.66 | | | | | | | |

Run 9-16 C1 I1 S0 B1 Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ $\mu/\mu^*=0.677$ 0.730

Pt/Pto 131-144

~~998~~ .999 .999 ~~999~~ .993 .988 .999 .999 .999 .999 .999 .995 .990 ~~977~~ .980

Gp 330-344

~~941~~ -.073 -.415 -.424 -.325 .415 -.149 -.490 -.674 -.640 -.570 -.591 -1.170 -.475 -.937

Pt/Pto 101-130

.945 .920 .972 .963 1.000 1.000 .999 .937 .981 .957
 .999 1.000 1.000 .951 .978 .965 1.000 1.000 1.000 .972
 .986 .983 1.000 1.000 1.000 .997 .998 .999 1.000 1.000

Ptc = 14.559 Ptc/Pto = .983 K = .0812

Gp 310-320

.298 .788 .683 .498 .362 .077 -.138 -.156 -.173 ~~169~~ -.151

Gp 321-329

~~035~~ .889 .959 .804 .685 .429 .189 .099 -.007

Ps 301-309 11.480 14.001 10.784 11.423 11.955 12.371 12.491 12.453 12.496

Ps 201-206 ~~12.329~~ 12.424 12.486 ~~12.393~~ 12.044 12.048

Ps 207-212 11.643 11.724 11.788 11.728 11.639 11.556

Ps 213-224 13.056 11.052 10.597 10.338 10.478 11.490 11.652 11.771 11.825 12.745 ~~12.728~~ 12.688

Ps 225-236 12.646 ~~11.131~~ 9.891 9.766 10.102 10.618 11.009 ~~11.368~~ 11.405 12.153 12.573 12.855

Ps 237-245 14.796 14.050 12.688 11.933 11.754 12.588 12.320 11.982 11.985

Pcv = 12.287 L = .0303 Pcb = 11.680 Ptc/Pcv = 1.185 Wc = 1.86 T = 80. B = 29.66

Run 9-17 C1 I1 S0 B1 Eng 2 $\alpha=4^\circ$ $\beta=4^\circ$ $\mu/\mu^*=0.677$ 0.732

Pt/Pto 131-144

~~.998~~ .999 1.000 ~~-.999~~ .993 .989 .999 1.000 1.000 .999 .995 .989 ~~-.978~~ .981

Cp 330-344

~~-.636~~ -.161 ~~-.469~~ ~~-.427~~ ~~-.300~~ .471 ~~-.112~~ ~~-.471~~ ~~-.664~~ ~~-.625~~ ~~-.554~~ ~~-.550~~ ~~-1.101~~ ~~-.446~~ ~~-.862~~

Pt/Pto 101-130

.951 .956 .970 .958 1.000 1.000 .999 .992 .978 .954
 .999 1.000 1.000 .998 .990 .957 1.000 1.000 1.000 1.000
 .999 .974 1.000 1.000 1.000 1.000 .999 .999 1.000

Ptc = 14.642 Ptc/Pto = .989 K = .0493

Cp 310-320

.514 .918 .778 .573 .425 .136 ~~-.080~~ ~~-.095~~ ~~-.111~~ ~~-.113~~ ~~-.094~~

Cp 321-329

.558 .976 .813 .596 .472 .236 .051 .001 ~~-.072~~

Ps 301-309 11.772 14.576 11.236 11.740 12.115 12.534 12.679 12.663 12.669

Ps 201-206 ~~12.469~~ 12.541 12.605 ~~12.521~~ 12.189 12.197

Ps 207-212 11.813 11.881 11.931 11.893 11.807 11.730

Ps 213-224 13.203 11.266 10.829 10.593 10.733 11.669 11.827 11.942 11.992 12.911 ~~12.888~~ 12.828

Ps 225-236 13.340 ~~11.861~~ 10.437 10.028 10.090 10.408 11.266 ~~14.377~~ 11.621 12.475 12.830 13.071

Ps 237-245 14.798 14.094 12.807 12.102 11.949 12.725 12.496 12.183 12.166

Pcw = 12.420 L = .0284 Pcb = 11.842 Ptc/Pcw = 1.179 Wc = 1.84 T = 83. B = 29.66

| | | | | | | | | | | | | | |
|----------------|-----------|--------------|-----------|--------|-----------|---------|-----------|--------|--------|--------|--------|--------|-------|
| Pt/Pto 131-144 | 1.000 | -1.000 | .993 | .989 | .999 | .999 | .994 | .987 | -.979 | .981 | | | |
| Cp 330-344 | -.042 | -.362 | -.597 | -.503 | -.353 | .481 | -.098 | -.463 | -.657 | -.541 | -1.093 | -.456 | -.841 |
| Pt/Pto 101-130 | .958 | .978 | .966 | .945 | 1.000 | 1.000 | .999 | 1.000 | .999 | .949 | | | |
| | 1.000 | 1.000 | 1.000 | 1.000 | .999 | .965 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| | 1.000 | .989 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| Ptc = 14.673 | Ptc/Pto = | .991 | K = | .0555 | | | | | | | | | |
| Cp 310-320 | .652 | .995 | .810 | .582 | .425 | .126 | -.078 | -.092 | -.132 | -.127 | -.119 | | |
| Cp 321-329 | .929 | .837 | .458 | .209 | .115 | -.064 | -.151 | -.138 | -.165 | | | | |
| Ps 301-309 | 12.265 | 11.202 | 11.715 | 12.149 | 12.436 | 12.641 | 12.762 | 12.771 | 12.774 | | | | |
| Ps 201-206 | 12.552 | 12.612 | 12.711 | 12.608 | 12.776 | 12.289 | | | | | | | |
| Ps 207-212 | 11.922 | 11.990 | 12.031 | 11.998 | 11.923 | 11.841 | | | | | | | |
| Ps 213-224 | 13.334 | 11.521 | 11.118 | 10.921 | 11.054 | 11.870 | 12.028 | 12.120 | 12.152 | 12.992 | 12.967 | 12.906 | |
| Ps 225-236 | 14.066 | 12.800 | 11.375 | 10.842 | 10.635 | 10.935 | 11.669 | 14.370 | 11.796 | 12.608 | 13.000 | 13.279 | |
| Ps 237-245 | 14.792 | 14.095 | 12.836 | 12.166 | 12.035 | 12.792 | 12.586 | 12.292 | 12.269 | | | | |
| Pcw = 12.508 | L = .0296 | Feb = 11.951 | Ptc/Pcw = | 1.173 | Wc = 1.83 | T = 84. | B = 29.65 | | | | | | |

Run 9-19 C1 II SO BL Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ $m/m^*=0.677$ 0.730

Pt/Pto 131-144
~~998~~ 1.000 .999 ~~999~~ .993 .989 .998 .998 .997 .993 .984 ~~977~~ .980

Cp 330-344
~~126~~ ~~567~~ ~~746~~ ~~616~~ ~~462~~ .437 ~~121~~ ~~483~~ ~~678~~ ~~646~~ ~~574~~ ~~580~~ ~~1167~~ ~~513~~ ~~880~~

Pt/Pto 101-130
 .963 .983 .983 .942 .999 1.000 1.000 1.000 1.000 .954
 1.000 1.000 1.000 1.000 .972 1.000 1.000 1.000 1.000 1.000
 1.000 .997 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.695 Ptc/Pto = .993 K = .0584

Cp 310-320
 .643 .956 .779 .527 .359 .057 ~~142~~ ~~153~~ ~~216~~ ~~207~~ ~~213~~

Cp 321-329
 .894 .577 .062 ~~124~~ ~~163~~ ~~292~~ ~~297~~ ~~247~~ ~~238~~

Pa 301-309 12.901 11.406 12.139 12.508 12.657 12.689 12.796 12.806 12.812

Pa 201-206 ~~12587~~ 12.644 12.744 ~~12650~~ 12.317 12.331

Pa 207-212 11.973 12.037 12.078 12.043 11.974 11.891

Pa 213-224 13.394 11.671 11.293 11.121 11.246 11.986 12.145 12.219 12.240 13.024 ~~13028~~ 12.935

Pa 225-236 14.425 ~~13412~~ 12.041 11.461 11.109 11.383 11.868 ~~14378~~ 11.948 12.663 13.047 13.335

Pa 237-245 14.795 14.111 12.859 12.198 12.069 12.817 12.621 12.337 12.315

Ptcw = 12.546 L = .0291 Ptc = 11.999 Ptc/Ptcw = 1.171 Wc = 1.82 T = 85. B = 29.65

[illegible]

Run 9-22 C1 D SO H1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $m/m^* = .677$ 0.731

Pt/Pto 131-144
~~.997~~ .994 ~~.998~~ .988 .986 .998 .997 .994 .992 .988 .983 ~~.976~~ .979

Cp 330-344
~~.092~~ -.517 -.731 -.550 -.368 .276 -.477 -.813 -.897 -.733 -.585 -.485 -1.022 -.419 -.801

Pt/Pto 101-130
 .962 .941 .952 .953 1.000 1.000 .964 .964 .950
 1.000 1.000 1.000 .980 .979 .960 1.000 1.000 .994
 .995 .980 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.584 Ptc/Pto = .986 K = .0599

Cp 310-320
 .881 .802 .476 .259 .128 -.091 -.124 -.097 -.097 ~~-.057~~ -.049

Cp 321-329
 .009 .850 .894 .738 .623 .345 .032 -.109 -.243

Ps 301-309 11.491 10.671 10.801 11.153 11.575 12.466 12.590 12.585 12.579

Ps 201-206 ~~12.367~~ 12.441 12.520 ~~12.439~~ 12.076 12.086

Ps 207-212 11.685 11.758 11.812 11.768 11.687 11.601

Ps 213-224 13.939 12.080 11.486 11.007 11.004 11.623 11.862 11.936 11.957 12.806 ~~12.811~~ 12.734

Ps 225-236 12.790 ~~11.977~~ 10.167 9.961 10.158 10.598 11.157 ~~11.388~~ 11.535 12.310 12.695 12.949

Ps 237-245 14.784 14.015 12.655 11.925 11.778 12.611 12.371 12.048 12.045

Pcv = 12.322 L = .0305 Pcb = 11.718 Ptc/Pcv = 1.184 Wc = 1.84 T = 88. B = 29.64

Run 9-21 C1 I1 90 B0 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^*=677$ 0.731

Pt/Pto 131-144

~~997~~ 1.000 1.000 -1.000 .993 .989 .999 .999 .999 .998 .994 .987 ~~977~~ .976

Cp 330-344

~~005~~ -.305 -.576 -.487 -.328 .442 -.186 -.557 -.733 -.676 -.589 -.564 -1.204 -.467 -.868

Pt/Pto 101-130

.956 .972 .962 .946 1.000 1.000 .999 1.000 .980 .961
1.000 1.000 1.000 1.000 .998 .971 1.000 1.000 1.000 1.000
1.000 .987 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.667 Ptc/Pto = .991 K = .0544

Cp 310-320

.702 .969 .750 .516 .366 .076 -.100 -.106 -.124 -.114 -.085

Cp 321-329

.741 .973 .732 .492 .378 .151 -.007 -.043 -.111

Ps 301-309 11.903 10.994 11.535 11.995 12.328 12.629 12.740 12.745 12.763

Ps 201-206 ~~12.539~~ 12.599 12.680 12.688 12.260 12.273

Ps 207-212 11.905 11.970 12.013 11.979 11.906 11.822

Ps 213-224 13.437 11.570 11.124 10.878 11.002 11.834 11.992 12.091 12.131 12.980 ~~12.984~~ 12.895

Ps 225-236 13.630 12.249 10.820 10.377 10.328 10.613 11.525 ~~14.383~~ 11.744 12.598 12.957 13.182

Ps 237-245 14.790 14.089 12.833 12.161 12.025 12.791 12.567 12.268 12.249

Pev = 12.492 L = .0286 Peb = 11.933 Ptc/Pev = 1.174 Mc = 1.82 T = 87. B = 29.65

Run 6-9 C1 I1 S0 B0 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ m/m²=~~677~~ 0.742

| | | | | | | | | | | | | |
|------------------|------------------|------------------|-----------------|-----------|---------|-----------|--------|-------------------|--------|--------|--------|--------|
| Pt/Pto 131-144 | 1.000 | 1.000 | 1.000 | 1.000 | .999 | .999 | .999 | .999 | .999 | .996 | .993 | .993 |
| Cp 330-344 | 1.000 | -0.000 | -0.000 | -0.001 | -0.000 | -0.000 | -0.000 | -0.000 | -0.000 | -0.002 | -0.014 | -0.002 |
| | -0.000 | -0.000 | -0.000 | -0.001 | -0.000 | -0.000 | -0.000 | -0.000 | -0.000 | -0.002 | -0.014 | -0.002 |
| Pt/Pto 101-130 | | | | | | | | | | | | |
| .933 | .899 | .971 | .967 | 1.000 | 1.000 | .975 | .907 | .981 | .991 | | | |
| 1.000 | 1.000 | .999 | .919 | .974 | .999 | .999 | .999 | .999 | .935 | | | |
| .971 | .999 | .999 | .999 | .998 | .972 | .987 | .999 | 1.000 | .999 | | | |
| Ptc = 14.395 | Ptc/Pto = .979 | K = .1024 | | | | | | | | | | |
| Cp 310-320 | | | | | | | | | | | | |
| -.088 | -.040 | -.017 | -.009 | -.006 | -.002 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 |
| Cp 321-329 | | | | | | | | | | | | |
| -.069 | -.030 | -.013 | -.006 | -.004 | -.001 | -.000 | -.000 | -.000 | -.000 | | | |
| Ps 301-309 | 11.211 | 13.847 | 13.871 | 14.099 | 10.792 | 12.305 | 12.299 | 12.257 | 12.301 | | | |
| Ps 201-206 | 12.091 | 12.201 | 12.318 | 12.212 | 11.801 | 11.825 | | | | | | |
| Ps 207-212 | 11.383 | 11.504 | 11.587 | 11.448 | 11.384 | 11.305 | | | | | | |
| Ps 213-224 | 9.847 | n.g. | n.g. | 9.687 | 9.960 | 11.165 | 11.417 | 11.552 | 11.609 | 12.524 | 12.478 | 12.448 |
| Ps 225-236 | 10.581 | 10.144 | 9.596 | 9.621 | 9.939 | 10.668 | 11.119 | 11.554 | 11.295 | 11.825 | 12.332 | 12.661 |
| Ps 237-245 | 14.693 | 13.901 | 12.433 | 11.618 | 11.429 | 12.344 | 12.056 | 11.701 | 11.723 | | | |
| Pcw = 12.075 | L = .0359 | Feb = 11.435 | Ptc/Pcw = 1.192 | Wc = 1.89 | T = 63. | B = 29.91 | | | | | | |

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Tabulated Data for Configuration C1 S1 I1 B1
(a) $q = 0$

Run 22-3 C1 I1 S1 B1 Eng $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^* = 1.494$ 0.518, 0.518

| | | | | | | | | | | | | | | |
|---|------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|-------|-------|-------|
| Pt/Pto 131-144 | | | | | | | | | | | | | | |
| 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .999 |
| Cp 330-344 | | | | | | | | | | | | | | |
| -.688 | -.000 | -.000 | -.000 | -.001 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.001 | -.006 | -.001 |
| Pt/Pto 101-130 | | | | | | | | | | | | | | |
| .982 | .956 | .982 | .986 | .999 | .997 | .999 | .962 | .984 | .989 | | | | | |
| 1.000 | 1.000 | 1.000 | .967 | .979 | .994 | 1.000 | 1.000 | 1.000 | .972 | | | | | |
| .974 | .999 | 1.000 | 1.000 | .999 | .985 | .984 | 1.000 | 1.000 | 1.000 | | | | | |
| Ptc = 14.550 Ptc/Pto = .990 K = .0450 | | | | | | | | | | | | | | |
| Cp 310-320 | | | | | | | | | | | | | | |
| -.043 | -.013 | -.007 | -.004 | -.004 | -.002 | -.001 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 |
| Cp 321-329 | | | | | | | | | | | | | | |
| -.038 | -.017 | -.008 | -.004 | -.002 | -.002 | -.001 | -.000 | -.000 | -.000 | | | | | |
| Ps 301-309 | | | | | | | | | | | | | | |
| 12.907 | 12.190 | 12.387 | 12.652 | 13.034 | 13.626 | 13.590 | 13.581 | 13.610 | | | | | | |
| Ps 201-206 | | | | | | | | | | | | | | |
| 13.547 | 13.593 | 13.638 | 13.575 | 13.370 | 13.400 | | | | | | | | | |
| Ps 207-212 | | | | | | | | | | | | | | |
| 13.230 | 13.284 | 13.317 | 13.260 | 13.226 | 13.194 | | | | | | | | | |
| Ps 213-224 | | | | | | | | | | | | | | |
| 12.289 | 12.107 | 12.228 | 12.389 | 12.609 | 13.053 | 13.183 | 13.24 | 13.265 | 13.684 | 13.712 | 13.698 | | | |
| Ps 225-236 | | | | | | | | | | | | | | |
| 12.510 | 12.446 | 12.362 | 12.469 | 12.653 | 12.913 | 13.029 | 13.077 | 13.096 | 13.372 | 13.604 | 13.74 | | | |
| Ps 237-245 | | | | | | | | | | | | | | |
| 14.324 | 14.324 | 14.323 | 14.321 | 14.323 | 13.734 | 13.536 | 13.359 | 13.351 | | | | | | |
| Pev = 13.521 L = .0184 Peb = 13.252 Ptc/Pev = 1.076 Wc = 1.33 T = 72. B = 29.91 | | | | | | | | | | | | | | |

Run 22-4 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^* = .640$ 0.669

Pt/Pto 131-144

1.000 1.000 1.000 1.000 1.000 1.000 .999 .999 .999 1.000 1.000 .993 .998

Cp 330-344

~~1.000~~ -.000 -.000 -.000 -.001 -.000 -.000 -.000 -.000 -.000 -.002 -.010 -.001 -.008

Pt/Pto 101-130

.947 .940 .968 .978 1.000 .998 .977 .930 .971 .983
1.000 1.000 .999 .944 .966 .989 1.000 1.000 1.000 .962
.973 .998 1.000 1.000 1.000 .990 .994 1.000 1.000 1.000

Ptc = 14.450 Ptc/Pto = .983 K = .0813

Cp 310-320

-.076 ~~-.013~~ -.015 -.006 -.005 -.002 -.000 -.000 -.000 -.000 -.000 -.000

Cp 321-329

-.054 -.023 -.010 -.005 -.003 -.001 -.000 -.000 -.000

Ps 301-309 11.843 14.512 10.953 11.323 11.823 12.783 12.751 12.740 12.795

Ps 201-206 12.554 12.744 12.847 12.722 12.370 12.412

Ps 207-212 12.098 12.151 12.207 12.151 12.115 12.04

Ps 213-224 10.640 10.375 10.552 10.775 11.050 11.904 12.092 12.185 12.217 12.961 ~~12.926~~ 12.929

Ps 225-236 11.438 10.989 10.602 10.665 10.971 11.378 11.728 11.912 12.005 12.374 12.797 13.050

Ps 237-245 14.056 14.056 14.057 14.058 14.056 13.048 12.676 12.370 12.363

Pcw = 12.625 L = .0331 Pcb = 12.128 Ptc/Pcw = 1.145 Wc = 1.71 T = 71. B = 29.91

Run 22-5 C1 I1 S1 B1 Eng $\angle \alpha = 0^\circ$ $\beta = 0^\circ$ $m/m^* = 644$ 0.738, 0.744

Pt/Pto 131-144

1.000 1.000 1.000 1.000 1.000 1.000 .999 .999 1.000 1.000 1.000 .992 .997

Cp 330-344

1.000 1.000 1.000 1.000 1.000 1.000 .999 .999 1.000 1.000 1.000 .992 .997

Pt/Pto 101-130

.926 .895 .961 .981 .999 .999 .974 .896 .973 .994
1.000 1.000 .999 .999 1.000 .999 1.000 .999 .999 .994
.991 1.000 1.000 1.000 .999 .996 1.000 1.000 1.000 1.000

Ptc = 14.399 Ptc/Pto = .979 K = .1071

Cp 310-320

1.000 1.000 1.000 1.000 1.000 1.000 .999 .999 1.000 1.000 1.000 .992 .997

Cp 321-329

1.000 1.000 1.000 1.000 1.000 1.000 .999 .999 1.000 1.000 1.000 .992 .997

Ps 301-309 11.395 13.200 14.051 14.536 11.191 12.154 12.130 12.152 12.273

Ps 201-206 12.058 12.183 12.323 12.188 11.723 11.744

Ps 207-212 11.343 11.450 11.500 11.406 11.333 11.258

Ps 213-224 9.793 n.e. 9.565 9.774 10.019 11.165 11.396 11.505 11.542 12.493 12.527 12.425

Ps 225-236 10.716 10.122 9.528 9.576 9.957 10.332 10.887 11.104 11.228 11.740 12.296 12.652

Ps 237-245 13.886 13.887 13.886 13.890 13.886 12.598 12.128 11.726 11.715

Pcw = 12.036 L = .0417 Pcb = 11.382 Ptc/Pcw = 1.196 Wc = 1.89 T = 72. B = 29.91

Run 22-2 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^* = .725$ 0.796, 0.806

Pt/Pto 131-144

1.000 1.000 1.000 1.000 1.000 1.000 .999 .999 1.000 1.000 1.000 .990 .997

Cp 330-344

-.000 -.000 -.000 -.001 .000 -.000 -.000 -.000 -.000 -.000 -.002 -.015 -.002 -.012

Pt/Pto 101-130

.940 .879 .948 .971 .999 .999 .997 .894 .956 .979
1.000 1.000 1.000 .912 .944 .931 1.000 1.000 .338
.939 .999 1.000 1.000 1.000 .973 .972 1.000 1.000 1.000

Ptc = 14.363 Ptc/Pto = .974 K = .1241

Cp 310-320

-.092 -.013 -.017 -.008 -.005 -.002 -.000 -.000 -.000 -.000 -.000 -.000

Cp 321-329

-.076 -.034 -.015 -.007 -.004 -.002 -.000 -.000 -.000

Ps 301-309 10.817 12.752 13.257 13.619 14.144 11.730 11.750 11.768 11.874

Ps 201-206 11.644 11.764 11.909 11.767 11.221 11.272

Ps 207-212 10.752 10.904 11.061 10.878 14.737 14.637

Ps 213-224 n.g. n.g. n.g. n.g. n.g. 10.407 10.767 10.913 10.959 12.095 ~~12.143~~ 12.093

Ps 225-236 10.207 9.606 n.g. n.g. n.g. 9.629 10.096 10.486 10.685 11.251 11.856 12.199

Ps 237-245 13.738 13.738 13.742 13.744 13.741 12.258 11.701 11.211 11.220

Pev = 11.596 L = .0479 Fcb = 12.162 Ptc/Pev = 1.239 Wc = 1.99 T = 79. B = 29.99

Run 39-1 C1 I1 S1 b $\Delta\alpha = 2^\circ$ $\alpha = 0^\circ$ $\beta = -30^\circ$ $m/m^* = .677$ ~~0.423~~, 0.423 0.745-

| | | | | | | | | | | | | |
|----------------|------------------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|-------------------|----------------------|
| Pt/Pto 131-144 | .999 | .999 | .999 | .998 | .999 | .999 | .999 | 1.000 | 1.000 | .999 | .990 | .994 |
| Cp 330-344 | | | | | | | | | | | | |
| 157 | -1.529 | -1.087 | -1.493 | -2.457 | -.123 | -.633 | -.964 | -1.209 | -1.332 | -1.408 | -2.967 | -9.250 -2.957 -9.070 |
| Pt/Pto 101-130 | | | | | | | | | | | | |
| .950 | .935 | .982 | .999 | .999 | .993 | .889 | .944 | .993 | | | | |
| 1.000 | 1.000 | .893 | .956 | .996 | 1.000 | 1.000 | .997 | .908 | | | | |
| 967 | .999 | 1.000 | .999 | .994 | .949 | .977 | .999 | 1.000 | 1.000 | | | |
| Ptc = 14.282 | Ptc/Pto = .974 | K = .1136 | | | | | | | | | | |
| Cp 310-320 | | | | | | | | | | | | |
| -31.867 | 6.630 | -4.752 | -1.842 | -1.030 | -.416 | -.586 | -.775 | -.907 | -.935 | -.784 | | |
| Cp 321-329 | | | | | | | | | | | | |
| -39.095 | -15.295 | -5.191 | -1.313 | -.132 | .680 | .576 | .340 | .123 | | | | |
| Ps 301-309 | 10.973 | 13.255 | 14.146 | 10.775 | 11.291 | 11.997 | 12.063 | 12.112 | 12.269 | | | |
| Ps 201-206 | 12.127 | 12.204 | 12.294 | 12.222 | 11.800 | 11.851 | | | | | | |
| Ps 207-212 | 11.430 | 1.591 | 11.621 | 1.455 | 11.395 | 11.332 | | | | | | |
| Ps 213-224 | 11.072 | 9.960 | 9.914 | 9.969 | 10.139 | 11.209 | 11.446 | 11.555 | 11.577 | 12.442 | 12.493 | 12.436 |
| Ps 225-236 | 10.409 | 9.757 | n.g. | 9.543 | 9.993 | 10.643 | 11.027 | 11.117 | 11.159 | 11.702 | 12.227 | 12.574 |
| Ps 237-245 | 13.996 | 13.996 | 13.997 | 13.999 | 13.995 | 12.570 | 12.123 | 11.723 | 11.731 | | | |
| Pcw = 12.083 | L = .0346 | Pcb = 11.471 | Ptc/Pcw = 1.182 | Wc = 1.84 | T = 64. | B = 29.79 | | | | | | |

Run 39--2 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=30^\circ$ m/m* = ~~577~~ 0.743, 0.741

Pt/Pto 131-144
 .999 1.000 1.000 1.000 .999 .999 .996 .996 .996 .996 .995 .991 .995

Cp 330-344
~~-1.061~~ -1.347 -1.412 -1.444 -1.169 -.075 -.598 -.935 -1.178 -1.300 -1.421 -2.889 -9.042 -2.085 -5.704

Pt/Pto 101-130
 .969 .970 .956 .960 .996 .999 1.000 .998 .970 .968
 .999 .999 1.000 .999 .988 .979 .999 .999 1.000
 .999 .997 .999 .999 .999 .999 .999 1.000 .999

Ptc = 14.542 Ptc/Pto = .991 K = .0435

Cp 310-320
~~-25.571~~ ~~-6.323~~ -2.055 -.047 .365 .421 -.196 -.346 -.542 -.645 -.739

Cp 321-329
 -9.050 -1.699 -.040 .477 .393 .131 -.037 -.065 -.056

Ps 301-309 12.243 11.048 11.276 11.689 12.144 12.620 12.619 12.681 12.716

Ps 201-206 12.531 12.595 12.648 12.579 12.253 12.295

Ps 207-212 11.921 11.981 12.019 11.989 11.929 11.851

Ps 213-224 11.549 10.631 10.622 10.719 10.871 11.719 11.931 12.018 12.040 12.898 ~~-12.870~~ 12.854

Ps 225-236 12.987 12.070 11.049 10.693 10.587 10.948 11.544 11.633 11.736 12.525 12.858 13.093

Ps 237-245 14.028 14.027 14.030 14.030 14.027 12.959 12.607 12.299 12.257

Pcv = 12.483 L = .0272 Pcb = 11.948 Ptc/Pcv = 1.165 Wc = 1.82 T = 61. B = 29.79

Run 40-1 C1 IL S: BL Eng 2 $\alpha=0^\circ$ $\beta=30^\circ$ $m/m^* = .722$

Pt/Pto 131-144

.999 1.000 1.000 1.000 .999 .999 .996 .996 .995 .995 .994 .988 .994

Cp 330-344

~~-.997~~ -1.338 -1.437 -1.248 -1.221 -.099 -.620 -.997 -1.266 -1.392 -1.527 -3.314 -10.840 -2.353 -6.870

Pt/Pto 101-130

.957 .951 .944 .948 .937 .999 1.000 .992 .956 .957
.999 1.000 1.000 .998 .978 .969 1.000 1.000 1.000 1.000
.997 .993 1.000 1.000 1.000 1.000 1.000 1.000 1.000 .999

Ptc = 14.489 Ptc/Pto = .988 K = .0564

Cp 310-320

-32.491 ~~-6.663~~ -2.847 -.440 .233 .440 -.207 -.305 -.521 -.611 -.727

Cp 321-329

-13.057 -2.961 -.076 .395 .395 .153 -.018 -.045 -.054

Ps 301-309 11.446 13.779 14.054 14.591 11.206 11.935 11.957 12.034 12.083

Ps 201-206 11.814 11.906 11.971 11.882 11.454 11.510

Ps 207-212 10.978 11.069 11.124 11.068 10.974 10.871

Ps 213-224 10.642 n.g. n.g. n.g. 9.505 10.715 11.000 11.117 11.150 12.330 ~~12.397~~ 12.262

Ps 225-236 12.391 11.236 9.854 n.g. n.g. 9.615 10.444 10.606 10.766 11.807 12.246 12.559

Ps 237-245 13.824 13.825 13.825 13.828 13.824 12.410 11.950 11.527 11.480

Pcv = 11.756 L = .0357 Peb = 11.014 Ptc/Pcv = 1.232 Wc = 2.03 T = 58. B = 29.79

Run 40-2 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=-30^\circ$ m/m² = ~~2.21~~ 0.785, 0.790

| | | | | | | | | | | | | |
|----------------|------------------|-------------------|--------|--------|--------|-----------|--------|--------|--------|--------|--------------------|-----------------------------|
| Pt/Pto 131-144 | .999 | .999 | .999 | .998 | .999 | .999 | 1.000 | 1.000 | .999 | .988 | .994 | |
| Cp 330-344 | -.065 | -.598 | -1.141 | -1.590 | -2.037 | -.434 | -.673 | -1.010 | -1.253 | -1.421 | -1.505 | -3.235-10.379 -3.245-10.071 |
| Pt/Pto 101-130 | .949 | .871 | .924 | .951 | .999 | 1.000 | .996 | .871 | .935 | .992 | | |
| | .999 | .999 | .999 | .978 | .949 | .997 | .999 | 1.000 | .998 | .899 | | |
| | .999 | .999 | .999 | .999 | .997 | .998 | .975 | .999 | 1.000 | 1.000 | | |
| Pto = | -.35 | Pto/Pto = | .970 | K = | .1330 | | | | | | | |
| Cp 310-320 | -30.162 | -6.755 | -5.177 | -2.159 | -1.253 | -.466 | -.608 | -.795 | -.935 | -.870 | -.814 | |
| Cp 321-339 | -42.044 | -1.678 | -5.612 | -1.648 | -.299 | .617 | .510 | .327 | .103 | | | |
| Ps 301-309 | 14.565 | 12.405 | 13.399 | 14.115 | 10.732 | 11.544 | 11.626 | 11.687 | 11.864 | | | |
| Ps 301-206 | 11.673 | 11.760 | 11.862 | 11.790 | 11.304 | 11.397 | | | | | | |
| Ps 307-212 | 10.829 | 11.011 | 11.084 | 10.873 | 10.785 | 10.705 | | | | | | |
| Ps 213-224 | 10.579 | n.g. | n.g. | n.g. | n.g. | 10.606 | 10.886 | 11.008 | 11.033 | 12.068 | -12.068 | 12.054 |
| Ps 225-236 | 9.984 | n.g. | n.g. | n.g. | n.g. | 9.791 | 10.288 | 10.481 | 10.595 | 11.242 | 11.822 | 12.214 |
| Ps 237-245 | 13.696 | 13.695 | 13.699 | 13.600 | 13.896 | 12.205 | 11.695 | 11.417 | 11.233 | | | |
| Pew = | 11.825 | L = | .032 | Peb = | 10.881 | Pto/Pew = | 1.224 | Wc = | 1.98 | T = | 57. | B = 29.79 |

Run 31-1 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^2 = .477$ 0.514

Pt/Pto 131-144

1.000 1.000 .999 .998 .996 .995 .999 1.000 .999 .999 .997 .994 .990 .991

Cp 330-344

.140 -.297 -.581 -.490 -.348 .432 -.194 -.558 -.735 -.686 -.602 -.600 -1.195 -.488 -.936

Pt/Pto 101-130

.985 .986 .981 .977 1.000 1.000 1.000 1.000 .990 .990 .979
1.000 1.000 1.000 .999 .984 1.000 1.000 1.000 1.000 1.000
1.000 .993 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.739 Ptc/Pto = .996 K = .0236

Cp 310-320

.513 1.362 .809 .572 .416 .117 -.082 -.089 -.112 -.100 -.077

Cp 321-329

.553 .987 .780 .549 .427 .187 .012 -.023 -.098

Ps 301-309 13.421 12.991 13.221 13.455 13.624 13.776 13.817 13.839 13.860

Ps 201-206 13.777 13.811 13.835 13.802 13.647 13.657

Ps 207-212 13.498 13.521 13.541 13.531 13.505 13.466

Ps 213-224 14.043 13.181 13.016 12.961 13.046 13.371 13.482 13.521 13.531 13.945 13.958 13.928

Ps 225-236 14.124 13.431 12.843 12.697 12.713 12.836 13.248 13.288 13.342 13.747 13.932 14.044

Ps 237-245 14.436 14.438 14.436 14.437 14.436 13.991 13.802 13.649 13.630

Pcv = 13.755 L = .0128 Pcb = 13.511 Ptc/Pcv = 1.072 Wc = 1.31 T = 70. B = 29.91

Run 31-2 C1 I1 S1 B1 Eng 2 $\alpha = -20^\circ$ $\beta = 0^\circ$ m/m* = ~~0.516~~ 0.516

Pt/Pto 131-144

1.000 1.000 1.000 1.000 .999 .998 1.000 1.000 1.000 1.000 .998 .991 .992

Cp 330-344

.098 -.023 -.257 -.290 -.248 .686 .302 -.002 -.227 -.290 -.281 -.421 -1.140 -.318 -.857

Pt/Pto 101-130

.982 .987 .982 .980 1.000 1.000 1.000 1.000 .993 .985
1.000 1.000 1.000 1.000 .999 .992 1.000 1.000 1.000 1.000
1.000 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.750 Ptc/Pto = .996 K = .0202

Cp 310-320

-.693 1.345 .950 .894 .779 .506 .169 .119 .047 .009 -.019

Cp 321-329

.663 .732 .366 .129 .014 -.183 -.297 -.260 -.248

Ps 301-309 13.699 13.101 13.438 13.651 13.764 13.799 13.828 13.854 13.874

Ps 201-206 13.795 13.827 13.855 13.819 13.664 13.675

Ps 207-212 13.517 13.542 13.561 13.553 13.525 13.486

Ps 213-224 13.500 12.758 12.715 12.794 12.911 13.375 13.466 13.520 13.540 13.960 13.934 13.943

Ps 225-236 14.337 13.706 13.080 12.886 12.843 12.975 13.314 13.344 13.382 13.767 13.960 14.085

Ps 237-245 14.453 14.452 14.452 14.453 14.451 14.006 13.819 13.669 13.651

Pcw = 13.772 L = .0129 Feb = 13.531 Ptc/Pcw = 1.071 Wc = 1.31 T = 70. B = 29.91

Run 31-3 C1 I1 S1 E1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $m/m^* = 1.0$ 0.516

Pt/Pto 131-144

.999 .998 .997 .996 .995 .994 .999 .999 .997 .996 .995 .993 .989 .990

Cp 330-344

.060 -.504 -.728 -.550 -.388 .266 -.479 -.802 -.890 -.740 -.603 -.532 -1.130 -.455 -.895

Pt/Pto 101-130

.986 .969 .981 .979 1.000 1.000 .978 .986 .979
1.000 1.000 1.000 .985 .990 .982 1.000 1.000 .993
.996 .991 1.000 1.000 1.000 .999 1.000 1.000 1.000

Ptc = 14.702 Ptc/Pto = .993 K = .0310

Cp 310-320

.801 -1.388 .547 .317 .187 -.046 -.109 -.083 -.081 .046 -.051

Cp 321-329

-.303 .791 .899 .758 .643 .358 .044 -.102 -.238

Ps 301-309 13.147 12.781 12.891 13.149 13.419 13.739 13.764 13.777 13.803

Ps 201-206 13.726 13.769 13.794 13.758 13.593 13.602

Ps 207-212 13.435 13.463 13.486 13.472 13.447 13.405

Ps 213-224 14.316 13.448 13.214 13.067 13.099 13.293 13.468 13.496 13.497 13.886 13.987 13.880

Ps 225-236 13.726 13.069 12.650 12.638 12.749 12.938 13.119 13.198 13.264 13.629 13.823 13.946

Ps 237-245 14.428 14.428 14.428 14.428 14.427 13.943 13.741 13.578 13.574

Pcv = 13.707 L = .0136 Pcb = 13.451 Ptc/Pcv = 1.073 $\mu_c = 1.32$ T = 70. B = 29.91

| | | | | | | | | | | | | |
|----------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|--------|-------|
| Pt/Pto 131-144 | .999 | .998 | .996 | .994 | .999 | 1.000 | 1.000 | .999 | .997 | .995 | .989 | .991 |
| Cp 330-344 | -.150 | -.510 | -.498 | -.420 | .357 | -.235 | -.577 | -.749 | -.618 | -.643 | -1.264 | -.535 |

Pt/Pto 101-130

| | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| .984 | .963 | .987 | .987 | 1.000 | 1.000 | .970 | .991 | .984 |
| 1.000 | 1.000 | 1.000 | .976 | .990 | .983 | 1.000 | 1.000 | .986 |
| .993 | .991 | 1.000 | 1.000 | 1.000 | .998 | .999 | 1.000 | 1.000 |

CP 310-320

| | 195 | 1957 | 1963 | 1968 | 1972 | 1978 | 1980 | 1984 |
|------|-----|------|------|------|------|------|------|------|
| 195 | | | | | | | | |
| 1957 | | | | | | | | |
| 1963 | | | | | | | | |
| 1968 | | | | | | | | |
| 1972 | | | | | | | | |
| 1978 | | | | | | | | |
| 1980 | | | | | | | | |
| 1984 | | | | | | | | |

| | | | | | | | | |
|--|------|------|------|------|------|------|------|-------|
| | .741 | .975 | .851 | .740 | .477 | .203 | .092 | -.030 |
|--|------|------|------|------|------|------|------|-------|

Pa 201-206 13.712 13.756 13.773 13.739 13.574 13.581

| | | | | | | | | | | | | | |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| P ₈ | 213-224 | 13.936 | 13.026 | 12.859 | 12.803 | 12.897 | 13.292 | 13.375 | 13.423 | 13.439 | 13.864 | 13.876 | 13.859 |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Pa 237-245 14.426 14.426 14.426 14.426 13.846 13.725 13.553 13.550

$P_{cv} = 13.689$ $L = .0135$ $P_{cb} = 13.431$ $P_{tc}/P_{cv} = 1.073$ $W_c = 1.32$ $T = 70.$ $B = 29.91$

Run 31-5 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=10^\circ$ $m/m^* = .47$ 0.514

Pt/Pto 131-144

1.000 1.000 1.000 .999 .996 .995 .999 .999 .999 .998 .996 .993 .989 .991

Cp 330-344

-.165 -.563 -.762 -.610 -.438 .378 -.213 -.572 -.753 -.702 -.642 -1.279 -.538 -.950

Pt/Pto 101-130

.986 .992 .991 .973 .998 1.000 1.000 1.000 1.000 .979
1.000 1.000 1.000 1.000 .987 1.000 1.000 1.000 1.000
1.000 .998 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.754 Ptc/Pto = .997 K = .0270

Cp 310-320

.588 1.273 .764 .533 .364 .065 -.127 -.137 -.188 -.181 -.162

Cp 321-329

.940 .744 .294 .070 -.007 -.146 -.188 -.155 -.181

Ps 301-309 13.615 13.210 13.514 13.692 13.775 13.800 13.832 13.861 13.879

Ps 201-206 13.794 13.825 13.861 13.819 13.670 13.678

Ps 207-212 13.520 13.545 13.563 13.554 13.531 13.483

Ps 213-224 14.103 13.235 13.140 13.089 13.163 13.416 13.556 13.583 13.584 13.963 13.940 13.940

Ps 225-236 14.534 13.980 13.364 13.141 13.035 -13.173 13.385 13.418 13.439 13.777 13.969 14 111

Ps 237-245 14.429 14.427 14.429 14.428 14.429 13.999 13.821 13.675 13.664

Pev = 13.774 L = .0130 Peb = 13.533 Ptc/Pev = 1.071 Wc = 1.31 T = 70. B = 29.91

Run 31-6 C1 I1 S1 B1 Eng 2 $\alpha=10^\circ$ $\beta=0^\circ$ $m/m^* = \frac{1}{2}$ 0.515

Pt/Pto 131-144

1.000 1.000 1.000 .999 .998 .996 1.000 1.000 1.000 .998 .996 .991 .992

Cp 330-344

~~134~~ -.155 -.431 -.396 -.301 .556 .039 -.297 -.512 -.514 -.466 -.540 -1.175 -.426 -.913

Pt/Pto 101-130

.984 .986 .982 .977 1.000 1.000 1.000 1.000 .933 .980
1.000 1.000 1.000 .999 .987 1.000 1.000 1.000 1.000
1.000 .996 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.744 Ptc/Pto = .996 K = .0225

Cp 310-320

.059 ~~1.254~~ .901 .744 .598 .294 .023 -.005 -.056 -.067 -.070

Cp 321-329

.686 .891 .578 .343 .227 .014 -.109 -.111 -.130

Ps 301-309 13.537 13.082 13.345 13.558 13.697 13.788 13.824 13.848 13.869

Ps 201-206 13.787 13.819 13.845 13.811 13.655 13.667

Ps 207-212 13.508 13.533 13.552 13.543 13.516 13.477

Ps 213-224 13.811 12.987 12.876 12.884 12.990 13.384 13.477 13.523 13.538 13.954 13.962 13.936

Ps 225-236 14.260 13.597 12.975 12.801 12.781 12.917 13.291 13.317 13.362 13.757 13.951 14.075

Ps 237-245 14.445 14.446 14.445 14.446 14.446 13.998 13.813 13.662 13.650

Pcw = 13.764 L = .0128 Pcb = 13.521 Ptc/Pcw = 1.071 Wc = 1.31 T = 70. B = 29.91

Run 31-7 C1 I1 S1 B1 Eng 2 $\alpha=10^\circ$ $\beta=0^\circ$ $m/m^* = 1.477$ 0.516

Pt/Pto 131-144

.999 .999 .998 .996 .995 .994 .999 .999 .997 .996 .995 .993 .989 .991

Cp 330-344

.118 -.415 -.686 -.540 -.371 .331 -.371 -.725 -.862 -.758 -.637 -.577 -1.136 -.482 -.895

Pt/Pto 101-130

.986 .981 .982 .976 1.000 1.000 1.000 .995 .988 .978
1.000 1.000 1.000 .999 .996 .981 1.000 1.000 1.000 1.000
1.000 .989 1.000 1.000 1.000 1.000 1.000 .999 1.000 1.000

Ptc = 14.729 Ptc/Pto = .995 K = .0241

Cp 310-320

.744 -1.215 .646 .410 .262 -.007 -.125 -.118 -.125 -.086 -.056

Cp 321-329

.264 .940 .872 .681 .559 .297 .060 -.032 -.139

Ps 301-309 13.267 12.900 13.132 13.378 13.566 13.774 13.815 13.834 13.853

Ps 201-206 13.775 13.810 13.833 13.799 13.645 13.654

Ps 207-212 13.494 13.518 13.538 13.530 13.503 13.464

Ps 213-224 14.231 13.367 13.165 13.055 13.112 13.357 13.501 13.534 13.540 13.939 13.962 13.925

Ps 225-236 13.972 13.300 12.754 12.655 12.728 12.852 13.195 13.275 13.343 13.727 13.907 14.023

Ps 237-245 14.440 14.441 14.440 14.440 14.440 13.984 13.797 13.643 13.635

Pev = 13.753 L = .0127 Pev = 13.508 Ptc/Pev = 1.071 Wc = 1.31 T = 70. B = 29.91

Run 32-1 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ m/m* = ~~0.610~~ 0.667

| | | | | | | | | | | | | | | |
|----------------|------------------|-------------------|--------|--------|-----------|-------------------|--------|--------|--------|--------|-------------------|--------|------|------|
| Pt/Pto 131-144 | 1.000 | .999 | 1.000 | .998 | .996 | .994 | .999 | 1.000 | .999 | .999 | .997 | .994 | .986 | .989 |
| Cp 330-344 | 1.000 | .999 | .998 | .996 | .994 | .999 | 1.000 | .999 | .999 | .999 | .997 | .994 | .986 | .989 |
| | 1.000 | .999 | .998 | .996 | .994 | .999 | 1.000 | .999 | .999 | .999 | .997 | .994 | .986 | .989 |
| | .973 | .963 | .973 | .966 | .999 | 1.000 | .991 | .977 | .965 | | | | | |
| | 1.000 | 1.000 | 1.000 | .998 | .989 | .965 | 1.000 | 1.000 | 1.000 | | | | | |
| | .999 | .978 | 1.000 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | | | | | |
| Pt/Pto 101-130 | | | | | | | | | | | | | | |
| | .973 | .963 | .973 | .966 | .999 | 1.000 | .991 | .977 | .965 | | | | | |
| | 1.000 | 1.000 | 1.000 | .998 | .989 | .965 | 1.000 | 1.000 | 1.000 | | | | | |
| | .999 | .978 | 1.000 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | | | | | |
| Ptc = 14.657 | Ptc/Pto = | .991 | K = | .0373 | | | | | | | | | | |
| Cp 310-320 | -1.061 | -2.698 | .912 | .788 | .641 | .303 | -.012 | -.052 | -.080 | -.092 | -.077 | | | |
| Cp 321-329 | -.704 | .774 | .922 | .751 | .608 | .333 | .094 | .026 | -.063 | | | | | |
| Ps 301-309 | 12.183 | 11.177 | 11.863 | 12.335 | 12.658 | 12.914 | 12.986 | 13.018 | 13.051 | | | | | |
| Ps 201-206 | 12.889 | 12.951 | 13.000 | 12.946 | 12.668 | 12.673 | | | | | | | | |
| Ps 207-212 | 12.365 | 12.416 | 12.453 | 12.431 | 12.375 | 12.305 | | | | | | | | |
| Ps 213-224 | 13.036 | 11.657 | 11.426 | 11.354 | 11.487 | 12.217 | 12.349 | 12.425 | 12.447 | 13.209 | 13.361 | 13.178 | | |
| Ps 225-236 | 13.256 | 12.173 | 11.177 | 10.921 | 10.987 | 11.049 | 11.870 | 12.026 | 12.144 | 12.833 | 13.147 | 13.354 | | |
| Ps 237-245 | 14.154 | 14.150 | 14.156 | 14.157 | 14.154 | 13.283 | 12.948 | 12.670 | 12.637 | | | | | |
| Pev = 12.855 | L = | .0227 | Peb = | 12.391 | Ptc/Pev = | 1.140 | Wc = | 1.69 | T = | 87. | B = | 29.88 | | |

Run 32-2 C1 I1 S1 B1 Eng 2 $\alpha = -4^\circ$ $\beta = 0^\circ$ $m/m^* = .618$ 0.668

Pt/Pto 131-144

1.000 .999 1.000 .999 .997 .994 .999 1.000 .999 .999 .997 .994 .986 .990

Cp 330-344

~~1.000~~ -.270 -.570 -.538 -.453 .462 -.134 -.509 -.727 -.716 -.673 -.882 -2.086 -.716 -1.636

Pt/Pto 101-130

.973 .966 .974 .966 1.000 1.000 .995 .978 .967
1.000 1.000 1.000 .999 .989 .968 1.000 1.000 1.000
.999 .983 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.666 Ptc/Pto = .992 K = .0347

Cp 310-320

-1.349 ~~1.598~~ .942 .833 .697 .361 .019 -.021 -.063 -.087 -.075

Cp 321-329

-.526 .803 .912 .688 .544 .275 .054 .002 -.070

Ps 301-309 12.312 11.250 11.906 12.367 12.677 12.929 12.996 13.029 13.064

Ps 201-206 12.900 12.962 13.010 12.957 12.683 12.684

Ps 207-212 12.380 12.432 12.468 12.445 12.390 12.322

Ps 213-224 12.911 11.557 11.355 11.316 11.459 12.219 12.351 12.431 12.457 13.220 ~~13.568~~ 13.189

Ps 225-236 13.338 ~~12.451~~ 11.236 10.962 11.005 ~~11.234~~ 11.907 12.037 12.156 12.858 13.163 13.367

Ps 237-245 14.159 14.159 14.160 14.162 14.159 13.294 12.961 12.684 12.651

Pcv = 12.866 L = .0223 Pcb = 12.406 Ptc/Pcv = 1.140 Wc = 1.69 T = 85. B = 29.88

Run 32-3 C1 I1 S1 B1 Eng 2 $\alpha = -10^\circ$ $\beta = 0^\circ$ $m/m^* = .620$ 0.666

| | | | | | | | | | | | | | | |
|----------------|------------------|-------------------|-----------------|-----------|---------|-------------------|--------|--------|--------|--------|-------------------|--------|-------|--------|
| Pt/Pto 131-144 | .999 | 1.000 | .999 | .998 | .995 | .999 | 1.000 | 1.000 | .998 | .995 | .987 | .990 | | |
| Cp 330-344 | -.110 | -.183 | -.475 | -.459 | -.412 | .538 | .016 | -.349 | -.576 | -.604 | -.836 | -2.053 | -.665 | -1.603 |
| Pt/Pto 101-130 | .973 | .969 | .972 | .967 | .999 | 1.000 | 1.000 | .999 | .976 | .969 | | | | |
| | 1.000 | 1.000 | 1.000 | 1.000 | .990 | .972 | 1.000 | 1.000 | 1.000 | 1.000 | | | | |
| | 1.000 | .988 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | | |
| Ptc = 14.673 | Ptc/Pto = .992 | K = .0335 | | | | | | | | | | | | |
| Cp 310-320 | -1.890 | -2.473 | .930 | .896 | .779 | .461 | .084 | .033 | -.023 | -.051 | -.068 | | | |
| Cp 321-329 | -.346 | .791 | .801 | .576 | .433 | .164 | -.023 | -.061 | -.094 | | | | | |
| Ps 301-309 | 12.485 | 11.337 | 11.968 | 12.420 | 12.713 | 12.941 | 13.000 | 13.035 | 13.071 | | | | | |
| Ps 201-206 | 12.91 | 12.970 | 13.021 | 12.968 | 12.695 | 12.697 | | | | | | | | |
| Ps 207-212 | 12.396 | 12.447 | 12.481 | 12.459 | 12.402 | 12.334 | | | | | | | | |
| Ps 213-224 | 12.708 | 11.405 | 11.248 | 11.260 | 11.420 | 12.217 | 12.353 | 12.438 | 12.467 | 13.232 | 13.268 | 13.197 | | |
| Ps 225-236 | 13.448 | 12.380 | 11.333 | 11.031 | 11.037 | 11.758 | 11.958 | 12.062 | 12.171 | 12.887 | 13.187 | 13.386 | | |
| Ps 237-245 | 14.167 | 14.167 | 14.170 | 14.171 | 14.168 | 13.302 | 12.974 | 12.698 | 12.666 | | | | | |
| Pev = 12.877 | L = .0223 | Peb = 12.420 | Ptc/Pev = 1.139 | Wc = 1.69 | T = 82. | B = 29.88 | | | | | | | | |

Run 32-4 C1 I1 S1 B1 Eng 2 $\alpha = -20^\circ$ $\beta = 0^\circ$ m/m* = ~~620~~ 0.665

Pt/Pto 131-144

1.000 .999 1.000 1.000 .999 .998 .999 1.000 1.000 1.000 .997 .988 .990

Cp 330-344

~~.007~~ -.040 -.288 -.332 -.330 .676 .279 -.035 -.276 -.365 -.377 -.686 -1.947 -.531 -1.496

Pt/Pto 101-130

.971 .973 .972 .967 .999 1.000 1.000 .976 .974
1.000 1.000 1.000 .992 .984 1.000 1.000 1.000
1.000 .996 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.689 Ptc/Pto = .993 K = .0329

Cp 310-320

~~-2.998~~ ~~2.374~~ .871 .964 .894 .634 .223 .159 .077 .026 -.014

Cp 321-329

-.188 .702 .613 .356 .213 -.040 -.218 -.213 -.208

Ps 301-309 12.796 11.466 12.051 12.511 12.816 12.990 13.030 13.069 13.110

Ps 201-206 12.945 13.004 13.053 13.001 12.733 12.734

Ps 207-212 12.438 12.488 12.522 12.501 12.447 12.380

Ps 213-224 12.319 11.146 11.083 11.191 11.361 12.216 12.376 12.470 12.505 13.262 ~~13.281~~ 13.226

Ps 225-236 13.591 ~~12.551~~ 11.510 11.182 11.145 11.344 12.047 12.127 12.224 12.934 13.234 13.428

Ps 237-245 14.188 14.188 14.188 14.190 14.187 13.326 13.009 12.738 12.704

Pcw = 12.912 L = .0218 Fcb = 12.463 Ptc/Pcw = 1.138 Wc = 1.69 T = 80. B = 29.88

Run 32-5 C1 I1 S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ m/m²=~~6.20~~ 0.666

Pt/Pto 131-144

1.000 .999 .999 .938 .935 .994 .999 .999 .999 .998 .996 .993 .986 .989

Cp 330-344

~~113~~ -.379 -.682 -.533 -.494 .381 -.306 -.692 -.875 -.835 -.746 -.910 -2.077 -.748 -1.642

Pt/Pto 101-130

.974 .961 .973 .967 1.000 1.000 1.000 .987 .977 .965
1.000 1.000 1.000 .996 .987 .963 1.000 1.000 1.000 1.000
.993 .975 1.000 1.000 1.000 1.000 .999 1.000 1.000 1.000

Ptc = 14.649 Ptc/Pto = .991 K = .0398

Cp 310-320

~~1785~~ ~~2707~~ .905 .739 .586 .256 -.038 -.068 -.092 -.094 -.071

Cp 321-329

~~925~~ .736 .964 .802 .666 .383 .122 .028 -.075

Ps 301-309 12.048 11.097 11.817 12.302 12.645 12.915 12.991 13.020 13.055

Ps 201-206 12.890 12.955 13.006 12.949 12.677 12.677

Ps 207-212 12.374 12.424 12.459 12.439 12.382 12.313

Ps 213-224 13.152 11.764 11.507 11.406 11.524 12.224 12.358 12.432 12.453 13.209 ~~13.245~~ 13.178

Ps 225-236 13.163 ~~12.680~~ 11.115 10.890 10.979 ~~11.279~~ 11.848 12.010 12.142 12.823 13.141 13.350

Ps 237-245 14.158 14.158 14.159 14.161 14.158 13.283 12.949 12.669 12.640

Pcw = 12.859 L = .0224 Peb = 12.398 Ptc/Pcw = 1.139 We = 1.69 T = 79. B = 29.88

Run 32-6 C1 I1 S1 B1 Eng 2 $\alpha=10^\circ$ $\beta=0^\circ$ $m/m^* = 520$ 0.665

| | | | | | | | | | | | | | | |
|----------------|-------------------|-------------------|--------|--------|-----------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------------|
| Pt/Pto 131-144 | .993 | .999 | .998 | .997 | .995 | .993 | .999 | .999 | .998 | .996 | .995 | .992 | .985 | .988 |
| Cp 330-344 | -.096 | -.445 | -.740 | -.623 | -.517 | .314 | -.405 | -.777 | -.939 | -.859 | -.758 | -.899 | -2.039 | -.749 -1.655 |
| Pt/Pto 101-130 | .974 | .956 | .973 | .967 | 1.000 | 1.000 | 1.000 | .980 | .976 | .965 | | | | |
| | 1.000 | 1.000 | 1.000 | .993 | .984 | .961 | 1.000 | 1.000 | 1.000 | .999 | | | | |
| | .997 | .971 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | .998 | 1.000 | 1.000 | | | | |
| Ptc = 14.644 | Ptc/Pto = | .990 | K = | .0439 | | | | | | | | | | |
| Cp 310-320 | -.554 | 1.099 | .851 | .674 | .520 | .192 | -.056 | -.077 | -.094 | -.075 | -.054 | | | |
| Cp 321-329 | -1.365 | .574 | .930 | .854 | .726 | .440 | .138 | .019 | -.115 | | | | | |
| Ps 301-309 | 11.862 | 10.962 | 11.755 | 12.245 | 12.596 | 12.884 | 12.969 | 12.996 | 13.029 | | | | | |
| Ps 201-206 | 12.870 | 12.939 | 12.986 | 12.934 | 12.654 | 12.656 | | | | | | | | |
| Ps 207-212 | 12.345 | 12.399 | 12.436 | 12.415 | 12.356 | 12.286 | | | | | | | | |
| Ps 213-224 | 13.295 | 11.879 | 11.590 | 11.444 | 11.548 | 12.215 | 12.351 | 12.420 | 12.437 | 13.196 | 13.340 | 13.164 | | |
| Ps 225-236 | 13.002 | 11.920 | 11.003 | 10.812 | 10.933 | 11.264 | 11.800 | 11.972 | 12.114 | 12.787 | 13.114 | 13.332 | | |
| Ps 237-245 | 14.173 | 14.174 | 14.174 | 14.176 | 14.173 | 13.264 | 12.932 | 12.646 | 12.618 | | | | | |
| Pev = 12.840 | L = | .0227 | Peb = | 12.373 | Ptc/Pev = | 1.140 | Wc = | 1.71 | T = | 73. | B = | 29.90 | | |

Run 32-7 C1 I1 S1 B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ m/m* = ~~6.18~~ 0.668

| | | | | | | | | | | | | | |
|-----------------|-----------------|-------------------|-----------------|-----------------|-----------------|-------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|-------------------|
| Pt/Pto 131-144 | .998 | .996 | .994 | .993 | .999 | .999 | .998 | .997 | .995 | .993 | .985 | .989 | |
| Cp 330-344 | | | | | | | | | | | | | |
| 938 | -537 | -788 | -634 | -551 | .244 | -516 | -857 | -834 | -716 | -829 | -1.993 | -.709 | -1.605 |
| Pt/Pto 101-130 | | | | | | | | | | | | | |
| .975 | .944 | .976 | .973 | 1.000 | 1.000 | 1.000 | .961 | .978 | .971 | | | | |
| 1.000 | 1.000 | .975 | .978 | .967 | 1.000 | 1.000 | 1.000 | 1.000 | .990 | | | | |
| .990 | .974 | 1.000 | 1.000 | .999 | .999 | .999 | .938 | 1.000 | 1.000 | | | | |
| Ptc = 14.623 | Ptc/Pto = .988 | K = .0565 | | | | | | | | | | | |
| Cp 310-320 | | | | | | | | | | | | | |
| 206 | 1866 | .786 | .588 | .437 | .139 | -.044 | -.044 | -.063 | -.039 | -.058 | | | |
| Cp 321-329 | | | | | | | | | | | | | |
| 2150 | .275 | .864 | .857 | .762 | .476 | .109 | -.060 | -.214 | | | | | |
| Ps 301-309 | 11.775 | 10.846 | 11.498 | 12.076 | 12.495 | 12.872 | 12.917 | 12.936 | 12.983 | | | | |
| Ps 201-206 | 12.826 | 12.906 | 12.956 | 12.897 | 12.611 | 12.612 | | | | | | | |
| Ps 207-212 | 12.294 | 12.350 | 12.395 | 12.367 | 12.306 | 12.234 | | | | | | | |
| Ps 213-224 | 13.472 | 12.056 | 11.723 | 11.521 | 11.596 | 12.207 | 12.343 | 12.406 | 12.414 | 13.142 | 13.197 | 13.119 | |
| Ps 225-236 | 12.702 | 11.681 | 10.895 | 10.822 | 11.040 | 11.415 | 11.770 | 11.942 | 12.067 | 12.685 | 13.024 | 13.239 | |
| Ps 237-245 | 14.163 | 14.164 | 14.164 | 14.165 | 14.162 | 13.225 | 12.878 | 12.583 | 12.562 | | | | |
| Pcw = 12.801 | L = .0236 | Peb = 12.324 | Ptc/Pcw = 1.142 | Wc = 1.71 | T = 72. | B = 29.90 | | | | | | | |

Run 32-8 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=-4^\circ$ $m/m^* = \frac{6.50}{10}$ 0.667

| | | | | | | | | | | | | | | | |
|----------------|-----------------|-------------------|--------|--------|-----------|-------------------|--------|--------|--------|--------|-------------------|--------|--------|-------|--------|
| Pt/Pto 131-144 | .999 | .999 | .999 | .996 | .994 | .999 | 1.000 | .999 | .999 | .997 | .994 | .986 | .989 | | |
| Cp 330-344 | .997 | -.253 | -.592 | -.557 | -.489 | .398 | -.241 | -.613 | -.817 | -.782 | -.723 | -.913 | -2.074 | -.756 | -1.685 |
| Pt/Pto 101-130 | .973 | .950 | .978 | .971 | 1.000 | 1.000 | 1.000 | .971 | .981 | .968 | | | | | |
| | 1.000 | 1.000 | 1.000 | .988 | .984 | .968 | 1.000 | 1.000 | 1.000 | .938 | | | | | |
| | .996 | .982 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | | | | | |
| Ptc = 14.652 | Ptc/Pto = | .990 | K = | .0503 | | | | | | | | | | | |
| Cp 310-320 | -1.177 | 1.861 | .851 | .740 | .537 | .274 | -.044 | -.077 | -.105 | -.112 | -.098 | | | | |
| Cp 321-329 | -1.365 | .574 | .950 | .847 | .721 | .433 | .169 | .066 | -.044 | | | | | | |
| Ps 301-309 | 12.100 | 11.122 | 11.833 | 12.270 | 12.611 | 12.886 | 12.962 | 12.985 | 13.031 | | | | | | |
| Ps 201-206 | 12.875 | 12.946 | 12.987 | 12.936 | 12.659 | 12.661 | | | | | | | | | |
| Ps 207-212 | 12.353 | 12.404 | 12.442 | 12.416 | 12.359 | 12.291 | | | | | | | | | |
| Ps 213-224 | 13.016 | 11.620 | 11.384 | 11.308 | 11.441 | 12.191 | 12.322 | 12.406 | 12.430 | 13.197 | 13.488 | 13.162 | | | |
| Ps 225-236 | 12.980 | 11.803 | 10.952 | 10.770 | 10.915 | 11.469 | 11.785 | 11.971 | 12.117 | 12.786 | 13.114 | 13.326 | | | |
| Ps 237-245 | 14.190 | 14.190 | 14.191 | 14.191 | 14.189 | 13.267 | 12.937 | 12.650 | 12.621 | | | | | | |
| Pcv = 12.844 | L = | .0224 | Pcb = | 12.377 | Ptc/Pcv = | 1.141 | Wc = | 1.71 | T = | 72. | B = | 29.90 | | | |

Run 32-9 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=-10^\circ$ $m/\pi^* = 620$ 0.000

| | | | | | | | | | | | | | |
|----------------|----------------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|--------|--------|------|
| Pt/Pto 131-144 | .999 | .999 | .999 | .996 | .994 | .999 | 1.000 | .999 | .999 | .997 | .994 | .986 | .989 |
| Cp 330-344 | .989 | .985 | .978 | .982 | .999 | 1.000 | .946 | .983 | .976 | | | | |
| | .989 | .985 | 1.000 | .960 | .982 | .972 | 1.000 | 1.000 | .980 | | | | |
| | .989 | .985 | 1.000 | 1.000 | 1.000 | .997 | .999 | 1.000 | 1.000 | | | | |
| Pt/Pto 101-130 | .974 | .933 | .978 | .982 | .999 | 1.000 | .946 | .983 | .976 | | | | |
| | 1.000 | 1.000 | 1.000 | .960 | .982 | .972 | 1.000 | 1.000 | .980 | | | | |
| | .989 | .985 | 1.000 | 1.000 | 1.000 | .997 | .999 | 1.000 | 1.000 | | | | |
| Ptc = 14.615 | Ptc/Pto = .988 | K = .0681 | | | | | | | | | | | |
| Cp 310-320 | -1.526 | -1.742 | .699 | .615 | .496 | .121 | -.119 | -.158 | -.182 | -.175 | -.172 | | |
| Cp 321-329 | -2.618 | .177 | .896 | .941 | .852 | .589 | .270 | .133 | -.009 | | | | |
| Ps 301-309 | 11.853 | 10.854 | 11.647 | 12.101 | 12.430 | 12.795 | 12.873 | 12.884 | 12.957 | | | | |
| Ps 401-406 | 12.811 | 12.886 | 12.927 | 12.878 | 12.590 | 12.589 | | | | | | | |
| Ps 207-212 | 12.270 | 12.326 | 12.375 | 12.332 | 12.275 | 12.208 | | | | | | | |
| Ps 213-224 | 12.912 | 11.478 | 11.239 | 11.160 | 11.300 | 12.098 | 12.229 | 12.317 | 12.344 | 13.120 | 13.150 | 13.095 | |
| Ps 225-236 | 12.467 | 11.506 | 10.572 | 10.535 | 10.820 | 11.255 | 11.644 | 11.344 | 11.987 | 12.655 | 12.998 | 13.226 | |
| Ps 237-245 | 14.177 | 14.178 | 14.178 | 14.179 | 14.176 | 13.212 | 12.859 | 12.557 | 12.536 | | | | |
| Pev = 12.780 | L = .0232 | Peb = 12.298 | Ptc/Pev = 1.144 | Wc = 1.72 | T = 72. | B = 29.90 | | | | | | | |

Run 32-10 C1 -1 S1 E1 Eng 2 $\alpha=0^\circ$ $\beta=4^\circ$ $m/m^*=620$ 0.666

Pt/Pto 131-144

1.000 .999 1.000 .998 .996 .994 .999 .939 .999 .996 .993 .986 .990

Cp 330-344

~~665~~ -.421 -.693 -.595 -.485 .403 -.227 -.611 -.819 -.782 -.726 -.904 -2.060 -.737 -1.580

Pt/Pto 101-130

.975 .977 .965 .960 .999 1.000 1.000 1.000 .984 .963
1.000 1.000 1.000 1.000 .998 1.000 1.000 1.000 1.000 1.000
1.000 .985 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.684 Ptc/Pto = .992 K = .0398

Cp 310-320

~~871~~ ~~1731~~ .930 .793 .634 .288 -.023 -.054 -.103 -.110 -.101

Cp 321-329

-.119 .861 .831 .609 .463 .199 .007 -.033 -.096

Ps 301-309 12.438 11.525 11.956 12.349 12.685 13.000 13.055 13.102 13.131

Ps 201-206 12.967 13.026 13.085 13.021 12.757 12.761

Ps 207-212 12.469 12.517 12.548 12.530 12.477 12.410

Ps 213-224 13.126 11.801 11.577 11.514 11.645 12.335 12.462 12.532 12.552 13.286 ~~13.267~~ 13.251

Ps 225-236 13.560 ~~12.504~~ 11.482 11.176 11.147 11.385 12.088 12.146 12.235 12.951 13.278 13.476

Ps 237-245 14.196 14.195 14.195 14.197 14.195 13.344 13.033 12.766 12.734

Pev = 12.936 L = .0223 Peb = 12.492 Ptc/Pev = 1.135 Wc = 1.69 T = 71. B = 29.90

Run 32-11 C1 II S. B1 Eng 2 $\alpha=0^\circ$ $\beta=10^\circ$ m/m* = ~~620~~ 0.667

Pt/Pto 131-144
.999 .999 1.000 .999 .996 .994 .998 .999 .998 .996 .992 .986 .989

Cp 330-344
~~-186~~ -.599 -.809 -.671 -.541 .355 -.249 -.627 -.825 -.799 -.741 -.936 -2.133 -.764 -1.571

Pt/Pto 101-130
.976 .982 .973 .953 .998 .999 1.000 1.000 .999 .962
.999 1.000 1.000 1.000 1.000 .975 1.000 1.000 1.000 1.000
1.000 .993 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.701 Ptc/Pto = .993 K = .0476

Cp 310-320
-.825 ~~-1.669~~ .923 .769 .602 .249 -.067 -.098 -.165 -.172 -.174

Cp 321-329
.422 .894 .628 .369 .235 .009 -.114 -.112 -.146

Ps 301-309 12.790 11.927 12.167 12.546 12.826 13.018 13.060 13.113 13.143

Ps 201-206 12.977 13.034 13.110 13.029 12.768 12.775

Ps 207-212 12.481 12.530 12.561 12.542 12.493 12.423

Ps 213-224 13.168 11.890 11.677 11.623 11.747 12.399 12.519 12.581 12.591 13.297 ~~-13.342~~ 13.262

Ps 225-236 13.913 ~~12.921~~ 11.889 11.528 11.398 11.639 12.216 12.241 12.302 12.963 13.309 13.546

Ps 237-245 14.195 14.195 14.196 14.195 13.346 13.046 12.783 12.750

Pev = 12.949 L = .0232 Peb = 12.505 Ptc/Pev = 1.135 Wc = 1.69 T = 71. B = 29.90

Run 32-12 C1 IL S. Bl Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ $m/m^*=630$ 0.668

Pt/Pto 131-144

1.000 .999 .998 .996 .994 .998 .999 .998 .997 .995 .992 .986 .989

Cp 330-344

~~146~~ -.604 -.811 -.653 -.502 .314 -.332 -.704 -.892 -.836 -.764 -.936 -2.112 -.750 -1.529

Pt/Pto 101-130

.976 .981 .973 .952 .998 .999 1.000 1.000 .999 .961
1.000 1.000 1.000 1.000 1.000 .972 1.000 1.000 1.000 1.000
1.000 .990 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.698 Ptc/Pto = .993 K = .0485

Cp 310-320

~~1579~~ ~~1640~~ .894 .741 .572 .216 -.063 -.088 -.139 -.137 -.128

Cp 321-329

.255 .913 .697 .472 .335 .102 -.033 -.056 -.112

Ps 301-309 12.733 1.970 12.080 12.417 12.725 13.013 13.052 13.110 13.138

Ps 201-206 12.974 13.032 13.109 13.026 12.765 12.772

Ps 207-212 12.478 12.526 12.557 12.538 12.490 12.419

Ps 213-224 13.281 11.983 11.744 11.657 11.770 12.394 12.519 12.578 12.585 13.295 ~~13.328~~ 13.260

Ps 225-236 13.837 ~~14.838~~ 11.806 11.458 11.347 ~~11.593~~ 12.192 12.222 12.288 12.959 13.306 13.541

Ps 237-245 14.194 14.194 14.195 14.196 14.194 13.343 13.042 12.780 12.746

Rev = 12.946 L = .0233 Pev = 12.501 Ptc/Pev = 1.135 Wc = 1.69 T = 71. B = 29.90

Run 32-13 C1 I1 S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=4^\circ$ $m/m^*=620$ 0.669, 0.666

Pt/Pto 131-144

1.000 .999 .998 .996 .994 .999 .999 .999 .998 .996 .993 .986 .989

Cp 330-344

~~1.000~~ .999 .998 .996 .994 .999 .999 .999 .998 .996 .993 .986 .989

Pt/Pto 101-130

.976 .975 .968 .960 .999 1.000 1.000 .999 .979 .963
1.000 1.000 1.000 1.000 .964 1.000 1.000 1.000 1.000
1.000 .978 1.000 1.000 1.000 1.000 .999 1.000 1.000

Ptc = 14.674 Ptc/Pto = .992 K = .0398

Cp 310-320

~~1.000~~ .999 .998 .996 .994 .999 .999 .999 .998 .996 .993 .986 .989

Cp 321-329

~~1.000~~ .999 .998 .996 .994 .999 .999 .999 .998 .996 .993 .986 .989

Pt 301-309 12.258 11.381 11.941 12.387 12.717 12.994 13.059 13.100 13.129

Pt 201-206 12.970 13.031 13.085 13.025 12.759 12.767

Pt 207-212 12.474 12.520 12.552 12.535 12.483 12.415

Pt 213-224 13.250 11.909 1.662 1.569 1.686 12.345 12.472 12.542 12.553 13.286 13.306 13.252

Pt 225-236 13.491 12.432 11.448 11.164 11.156 11.379 12.063 12.147 12.249 12.949 13.249 13.446

Pt 237-245 14.197 14.197 14.197 14.197 14.196 13.346 13.036 12.767 12.736

Ptc = 12.939 L = .0222 Ptc = 12.497 Ptc/Ptcv = 1.134 Wc = 1.68 T = 71. B = 29.90

Run 32-14 C1 I1 S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=-4^\circ$ $m/m^*=0.620$ 0.666

Pt/Pto 131-144

.999 .999 .999 .998 .995 .993 .999 1.000 .999 .998 .996 .993 .986 .989

Cp 330-344

.179 -.319 -.657 -.603 -.524 .356 -.324 -.694 -.880 -.824 -.748 -.911 -2.040 -.762 -1.677

Pt/Pto 101-130

.974 .949 .978 .973 1.000 1.000 1.000 .968 .980 .969
1.000 1.000 1.000 .985 .983 .964 1.000 1.000 1.000 .997
.995 .976 1.000 1.000 1.000 1.000 .999 1.000 1.000 1.000

Ptc = 14.644 Ptc/Pto = .990 K = .0515

Cp 310-320

-.876 ~~1.536~~ .827 .685 .529 .212 -.077 -.105 -.128 -.119 -.100

Cp 321-329

-1.555 .532 .955 .876 .755 .473 .175 .054 -.072

Ps 301-309 11.952 11.032 11.822 12.299 12.619 12.897 12.980 12.998 13.042

Ps 201-206 12.890 12.959 12.998 12.944 12.670 12.676

Ps 207-212 12.369 12.421 12.460 12.436 12.376 12.308

Ps 213-224 13.156 11.750 11.450 11.384 11.504 12.218 12.348 12.426 12.448 13.204 ~~13.255~~ 13.173

Ps 225-236 12.902 ~~11.822~~ 10.927 10.780 10.945 11.336 11.786 11.979 12.125 12.787 13.114 13.325

Ps 237-245 14.197 14.197 14.198 14.198 14.197 13.275 12.947 12.661 12.635

Pcw = 12.856 L = .0224 Pcb = 12.395 Ptc/Pcw = 1.139 Wc = 1.70 T = 71. B = 29.90

Run 32-15 C1 I1 S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=-10^\circ$ m/m**=~~6650~~ 0.665

Pt/Pto 131-144
 .999 .999 .998 .996 .994 .999 1.000 .999 .996 .994 .986 .989
 Cp 330-344
~~1.000~~ -.276 -.654 -.649 -.619 .297 -.352 -.707 -.881 -.837 -.756 -.941 -2.029 -.811 -1.808

Pt/Pto 101-130
 .973 .933 .978 .984 1.000 1.000 1.000 .947 .982 .976
 1.000 1.000 1.000 .960 .981 .969 1.000 1.000 .978
 .987 .981 1.000 1.000 1.000 .996 .998 .999 1.000 1.000

Ptc = 14.612 Ptc/Pto = .987 K = .0674

Cp 310-320
 -1.195 -1.518 .666 .559 .419 .123 -.165 -.206 -.239 -.195 -.195

Cp 321-329
 -.2792 .078 .891 .939 .853 .589 .253 .093 -.058

Ps 301-309 11.720 10.806 11.666 12.144 12.473 12.831 12.906 12.917 12.984

Ps 201-206 12.842 12.917 12.955 12.903 12.618 12.623

Ps 207-212 12.308 12.365 12.415 12.370 12.313 12.250

Ps 213-224 13.067 11.639 11.375 11.268 11.396 12.152 12.277 12.359 12.386 13.143 ~~13.184~~ 13.120

Ps 225-236 12.395 ~~11.339~~ 10.579 10.566 10.852 11.315 11.694 11.892 12.029 12.676 13.016 13.240

Ps 237-245 14.190 14.191 14.190 14.192 14.189 13.232 12.886 12.587 12.572

Pcw = 12.810 L = .0231 Pcb = 12.337 Ptc/Pcw = 1.141 Wc = 1.71 T = 71. B = 29.90

Run 32-16 C1 I1 S1 B1 Eng 2 $\alpha = -4^\circ$ $\beta = -10^\circ$ $m/m^* = .510$ 0.666

Pt/Pto 131-144

.999 .999 .999 .997 .995 .999 1.000 .999 .999 .998 .995 .986 .989

Cp 330-344

.322⁺ -.095 -.473 -.512 -.498 .387 -.189 -.538 -.743 -.738 -.692 -.929 -2.115 -.762 -1.777

Pt/Pto 101-130

.973 .934 .978 .979 1.000 1.000 1.000 .947 .983 .976
1.000 1.000 1.000 .963 .983 .978 1.000 1.000 1.000 .982
.991 .991 1.000 1.000 1.000 .998 .999 1.000 1.000 1.000

Ptc = 14.628 Ptc/Pto = .988 K = .0667

Cp 310-320

-1.713 -1.477 .738 .673 .557 .263 -.065 -.107 -.128 -.149 -.142

Cp 321-329

-2.235 .305 .965 .925 .824 .561 .270 .147 .028

Ps 301-309 12.085 11.030 11.755 12.168 12.485 12.837 12.912 12.930 13.003

Ps 201-206 12.859 12.933 12.968 12.921 12.635 12.640

Ps 207-212 12.329 12.383 12.426 12.389 12.336 12.270

Ps 213-224 12.827 11.436 11.227 11.187 11.334 12.140 12.277 12.366 12.399 13.162 13.174 13.136

Ps 225-236 12.609 11.535 10.712 10.654 10.929 11.337 11.720 11.919 12.057 12.711 13.046 13.269

Ps 237-245 14.195 14.196 14.195 14.197 14.195 13.250 12.908 12.611 12.593

Pcv = 12.826 L = .0228 Pcb = 12.355 Ptc/Pcv = 1.140 Wc = 1.71 T = 70. B = 29.90

Run 32-17 C1 I1 S1 B1 Eng 2 $\alpha = -4^\circ$ $\beta = -4^\circ$ m/m* = ~~610~~ 0.669

| | | | | | | | | | | | | | | | |
|----------------|----------------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|--------|--------|--------|-------|--------|
| Pt/Pto 131-144 | .999 | .999 | .999 | .997 | .994 | .999 | 1.000 | .999 | .999 | .997 | .994 | .986 | .990 | | |
| Cp 330-344 | .247 | -.186 | -.515 | -.503 | -.450 | .440 | -.151 | -.519 | -.731 | -.722 | -.675 | -.887 | -2.047 | -.720 | -1.654 |
| Pt/Pto 101-130 | .973 | .953 | .978 | .970 | .999 | 1.000 | 1.000 | .977 | .981 | .969 | | | | | |
| | 1.000 | 1.000 | 1.000 | .992 | .985 | .972 | 1.000 | 1.000 | 1.000 | .999 | | | | | |
| | .997 | .987 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | | | | | |
| Ptc = 14.664 | Ptc/Pto = .991 | K = .0468 | | | | | | | | | | | | | |
| Cp 310-320 | -1.447 | 1.437 | .856 | .785 | .650 | .335 | -.005 | -.044 | -.075 | -.095 | -.086 | | | | |
| Cp 321-329 | -1.142 | .650 | .915 | .797 | .664 | .384 | .142 | .056 | -.028 | | | | | | |
| Ps 301-309 | 12.268 | 11.225 | 11.896 | 12.338 | 12.642 | 12.908 | 12.976 | 13.001 | 13.048 | | | | | | |
| Ps 201-206 | 12.896 | 12.964 | 13.000 | 12.948 | 12.672 | 12.683 | | | | | | | | | |
| Ps 207-212 | 12.375 | 12.427 | 12.464 | 12.436 | 12.382 | 12.314 | | | | | | | | | |
| Ps 213-224 | 12.907 | 11.541 | 11.334 | 11.292 | 11.437 | 12.203 | 12.339 | 12.421 | 12.448 | 13.214 | 13.223 | 13.180 | | | |
| Ps 225-236 | 13.082 | 11.989 | 11.036 | 10.828 | 10.949 | 11.303 | 11.833 | 12.005 | 12.146 | 12.816 | 13.137 | 13.348 | | | |
| Ps 237-245 | 14.207 | 14.206 | 14.206 | 14.208 | 14.205 | 13.279 | 12.959 | 12.672 | 12.646 | | | | | | |
| Rev = 12.861 | L = .0223 | Feb = 12.400 | Ptc/Pcv = 1.140 | Wc = 1.71 | T = 70. | B = 29.90 | | | | | | | | | |

Run 32-18 C1 I1 S1 B1 Eng 2 $\alpha = -4^\circ$ $\beta = 4^\circ$ $m/m^* = 610$ 0.666

Pt/Pto 131-144

1.000 .999 1.000 .999 .937 .995 .999 .999 .999 .997 .987 .990

Cp 330-344

~~-.008~~ -.382 -.651 -.571 -.482 .454 -.133 -.515 -.733 -.681 -.887 -2.067 -.721 -1.589

Pt/Pto 101-130

.975 .976 .965 .961 .999 1.000 1.000 1.000 .987 .964
1.000 1.000 1.000 1.000 .999 .970 1.000 1.000 1.000 1.000
1.000 .989 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.694 Ptc/Pto = .993 K = .0391

Cp 310-320

-1.187 1.415 .940 .840 .690 .349 -.000 -.035 -.091 -.112 -.108

Cp 321-329

-.010 .871 .772 .527 .384 .124 -.049 -.070 -.119

Ps 301-309 12.550 11.592 12.004 12.384 12.721 13.007 13.057 13.104 13.135

Ps 201-206 12.972 13.032 13.088 13.023 12.755 12.766

Ps 207-212 12.471 12.520 12.551 12.532 12.478 12.411

Ps 213-224 13.000 11.691 11.497 11.467 11.606 12.331 12.456 12.530 12.551 13.290 ~~13.285~~ 13.254Ps 225-236 13.639 ~~12.582~~ 11.540 11.221 11.169 ~~11.410~~ 12.110 12.157 12.238 12.954 13.292 13.499

Ps 237-245 14.208 14.208 14.209 14.209 14.208 13.348 13.040 12.771 12.738

Pcv = 12.939 L = .0226 Pcb = 12.494 Ptc/Pcv = 1.136 Wc = 1.70 T = 70. B = 29.91

Run 32-19 C1 I1 S1 B1 Eng 2 $\alpha = -4^\circ$ $\beta = 10^\circ$ m/m ~~2.620~~ 0.667

Pt/Pto 131-144

1.000 1.000 1.000 .999 .997 .995 .999 .999 .999 .997 .993 .986 .990

Cp 330-344

~~-.228~~ -.580 -.794 -.678 -.564 .403 -.161 -.536 -.759 -.743 -.703 -.927 -2.140 -.762 -1.595

Pt/Pto 101-130

.975 .982 .972 .953 .998 1.000 1.000 1.000 .999 .963
1.000 1.000 1.000 1.000 .976 1.000 1.000 1.000 1.000 1.000
1.000 .994 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.708 Ptc/Pto = .994 K = .0468

Cp 310-320

-1.122 -1.368 .935 .804 .643 .293 -.054 -.098 -.177 -.196 -.203

Cp 321-329

.492 .847 .541 .266 .133 -.079 -.189 -.170 -.200

Ps 301-309 12.818 11.908 12.224 12.604 12.870 13.016 13.057 13.109 13.138

Ps 201-206 12.973 13.032 13.103 13.022 12.758 12.770

Ps 207-212 12.474 12.522 12.554 12.535 12.483 12.413

Ps 213-224 13.041 11.777 11.592 11.566 11.702 12.385 12.504 12.570 12.581 13.295 ~~13.313~~ 13.258

Ps 225-236 13.975 ~~12.991~~ 11.942 11.567 11.419 ~~11.659~~ 12.220 12.244 12.301 12.959 13.308 13.547

Ps 237-245 14.207 14.206 14.206 14.207 14.205 13.341 13.043 12.777 12.745

Pcv = 12.943 L = .0234 Pcb = 12.497 Ptc/Pcv = 1.136 Wc = 1.70 T = 70. B = 29.91

Run 33-1 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ m/m* = ~~677~~ 0.739 0.742

Pt/Pto 131-144

.999 .999 .998 .996 .994 .999 .999 .999 .996 .993 .984 .989

Cp 330-344

~~717~~ -.324 -.638 -.576 -.509 .407 -.236 -.615 -.814 -.798 -.742 -.996 -2.377 -.818 -1.875

Pt/Pto 101-130

.970 .953 .970 .962 .999 1.000 .999 .986 .974 .960
1.000 1.000 1.000 .985 .999 .999 1.000 .999 .999 .999
.998 .975 1.000 .999 .999 1.000 1.000 .999 1.000 1.000

Ptc = 14.593 Ptc/Pto = .983 K = .0477

Cp 310-320

-1.759 ~~-.283~~ .879 .828 .689 .354 .007. -.025 -.072 -.083 -.074

Cp 321-329

-1.270 .625 .889 .793 .650 .377 .125 .042 -.053

Ps 301-309 11.775 14.418 11.240 11.791 12.195 12.512 12.601 12.639 12.678

Ps 201-206 12.499 12.570 12.608 12.547 12.212 12.248

Ps 207-212 11.854 11.920 11.965 11.930 11.861 11.782

Ps 213-224 12.589 11.006 10.742 10.642 10.788 11.690 11.840 11.932 11.958 12.877 ~~12.913~~ 12.837

Ps 225-236 12.878 11.638 10.459 10.133 10.188 10.584 11.267 11.453 11.610 12.422 12.793 13.041

Ps 237-245 14.065 14.065 14.066 14.069 14.066 12.952 12.579 12.242 12.205

Pev = 12.448 L = .0272 Feb = 11.885 Ptc/Pev = 1.172 Wc = 1.83 T = 73. B = 29.80

Run 33-2 C1 I1 S1 B1 Eng 2 $\alpha = -4^\circ$ $\beta = 0^\circ$ $m/m^* = .677$ 0.740 , 0.739

Pt/Pto 131-144

.999 1.000 1.000 .999 .997 .994 .999 .999 .999 .999 .997 .994 .985 .989

Cp 330-344

~~.999~~ -.276 -.598 -.553 -.488 .455 -.149 -.535 -.752 -.745 -.714 -.978 -2.365 -.789 -1.854

Pt/Pto 101-130

.970 .957 .971 .962 .999 1.000 1.000 .992 .974 .963
1.000 .999 .999 .998 .986 .963 1.000 1.000 1.000 1.000
.999 .981 1.000 1.000 .999 1.000 1.000 .999 1.000 1.000

Ptc = 14.606 Ptc/Pto = .990 K = .0432

Cp 310-320

~~-2.023~~ -.484 .918 .859 .728 .399 .019 -.016 -.068 -.079 -.086

Cp 321-329

-1.036 .661 .878 .733 .595 .306 .077 .012 -.065

Ps 301-309 11.958 14.580 11.336 11.881 12.254 12.554 12.634 12.669 12.714

Ps 201-206 12.534 12.605 12.642 12.581 12.255 12.289

Ps 207-212 11.901 11.966 12.011 11.975 11.908 11.830

Ps 213-224 12.512 10.970 10.734 10.669 10.825 11.735 11.884 11.977 12.003 12.910 ~~12.920~~ 12.869

Ps 225-236 13.000 11.772 10.586 10.241 10.263 10.648 11.356 11.513 11.660 12.479 12.835 13.077

Ps 237-245 14.087 14.086 14.089 14.089 14.087 12.979 12.615 12.287 12.246

Pcw = 12.484 L = .0265 Pcb = 11.932 Ptc/Pcw = 1.170 Wc = 1.83 T = 70. B = 29.80

Run 33-3 C1 I1 S1 B1 Eng 2 $\alpha = -10^\circ$ $\beta = 0^\circ$ $m/m^* = .677$ 0.744 , 0.737

Pt/Pto 131-144

1.500 1.000 1.000 1.000 .998 .995 .999 1.000 1.000 1.000 .998 .995 .985 .990

Cp 330-344

.110 -.190 -.503 -.480 -.445 .543 .002 -.363 -.597 -.637 -.616 -.941 -2.364 -.742 -1.828

Pt/Pto 101-130

.970 .961 .970 .963 .999 1.000 1.000 .996 .973 .966
1.000 1.000 1.000 .999 .987 .969 1.000 1.000 1.000 1.000
.999 .987 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.620 Ptc/Pto = .991 K = .0396

Cp 310-320

-2.602 -.445 .940 .915 .815 .496 .101 .042 -.016 -.047 -.070

Cp 321-329

-.801 .712 .871 .639 .487 .213 .000 -.037 -.084

Ps 301-309 12.166 10.664 11.388 11.923 12.286 12.576 12.647 12.690 12.733

Ps 201-206 12.549 12.618 12.657 12.599 12.274 12.307

Ps 207-212 11.923 11.388 12.029 11.997 11.928 11.851

Ps 213-224 12.270 10.776 10.594 10.588 10.761 11.725 11.882 11.982 12.014 12.927 ~~12.940~~ 12.882

Ps 225-236 13.109 11.889 10.671 10.298 10.289 10.654 11.401 11.538 11.674 12.514 12.860 13.097

Ps 237-245 14.088 14.088 14.088 14.091 14.087 12.997 12.632 12.308 12.567

Pcw = 12.501 L = .0262 Fcb = 11.953 Ptc/Pcw = 1.169 Wc = 1.84 T = 66. B = 29.80

Run 33-4 C1 I1 S1 B Eng 2 $\alpha = -20^\circ$ $\beta = 0^\circ$ m/m" = ~~611~~ 0.740, 0.735

Pt/Pto 131-144

.999 1.000 1.000 1.000 .999 .997 .999 .999 1.000 .999 .997 .986 .990

Cp 330-344

.675 -.054 -.310 -.361 -.368 .659 .256 -.058 -.300 -.396 -.417 -.804 -2.301 -.622 -1.754

Pt/Pto 101-130

.966 .965 .967 .963 .999 1.000 1.000 .999 .971 .971
1.000 1.000 1.000 1.000 .988 .980 1.000 1.000 1.000 1.000
.999 .995 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.626 Ptc/Pto = .992 K = .0369

Cp 310-320

.3.987 -.561 .797 .953 .911 .665 .242 .165 .072 .021 -.021

Cp 321-329

.610 .660 .410 .272 .000 -.124 -.193

Ps 301-309 12.458 10.733 11.397 11.947 12.338 12.601 12.658 12.706 12.757

Ps 201-206 12.568 12.637 12.675 12.619 12.294 12.330

Ps 207-212 11.950 12.013 12.054 12.021 11.955 11.879

Ps 213-224 11.784 10.418 10.340 10.439 10.630 11.651 11.866 11.982 12.024 12.945 ~~12.962~~ 12.897

Ps 225-236 13.223 12.025 10.789 10.381 10.329 10.704 11.448 11.564 11.691 12.552 12.891 13.126

Ps 237-245 14.088 14.088 14.089 14.090 14.088 13.013 12.653 12.331 12.269

PeV = 12.520 L = .0460 Feb = 11.979 Ptc/PeV = 1.168 Wc = 1.83 T = 65. B = 29.79

Run 33-5 C1 I1 S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ m/m² = ~~0.697~~ 0.744 0.740

Pt/Pto 131-144

.999 .999 .998 .995 .993 .993 .999 .999 .998 .993 .984 .988

Cp 330-344

~~1.365~~ -.386 -.698 -.616 -.538 .363 -.323 -.702 -.839 -.845 -.779 -1.011 -2.406 -.836 -1.889

Pt/Pto 101-130

.971 .952 .970 .963 1.000 1.000 1.000 .981 .974 .960
1.000 1.000 .994 .983 .957 1.000 1.000 1.000 .939
.997 .971 1.000 1.000 1.000 1.000 .999 1.000 1.000

Ptc = 14.579 Ptc/Pto = .989 K = .0489

Cp 310-320

-1.514 -.613 .880 .793 .639 .302 -.619 -.082 -.087 -.070

Cp 321-329

-1.504 .574 .950 .833 .705 .424 .145 .042 -.070

Ps 301-309 11.625 14.336 11.170 11.767 12.194 12.525 12.621 12.659 12.694

Ps 201-206 12.514 12.539 12.632 12.567 12.238 12.272

Ps 207-212 11.882 11.948 11.994 11.959 11.892 11.812

Ps 213-224 12.710 11.118 10.834 10.705 10.840 11.715 11.861 11.954 11.980 12.890 ~~12.937~~ 12.850

Ps 225-236 12.777 11.553 10.408 10.119 10.202 10.630 11.266 11.463 11.630 12.428 12.800 13.048

Ps 237-245 14.065 14.066 14.067 14.069 14.065 12.969 12.595 12.264 12.227

Pcw = 12.469 L = .0270 Pcb = 11.914 Ptc/Fcw = 1.169 Wc = 1.83 T = 65. B = 29.79

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988

343

168

130

961

6539

320

670

323

760

785

292

708

079

42.0

211

67.

Run 33-7 C1 I1 S1 B1 Eng $\alpha=20^\circ$ $\beta=0^\circ$ $m/m^* = .644$ 0.742, 0.738

| | | | | | | | | | | | | | | |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------------|-----------------|-----------------|-----------------|
| Pt/Pto 131-144 | .999 | .999 | .998 | .996 | .994 | .993 | .993 | .999 | .998 | .997 | .995 | .992 | .984 | .988 |
| Cp 330-344 | .999 | .999 | .998 | .996 | .994 | .993 | .993 | .999 | .998 | .997 | .995 | .992 | .984 | .988 |
| | .533 | -.797 | -.652 | -.599 | .240 | -.524 | -.873 | -.974 | -.857 | -.741 | - .322 | -2.308 | -.780 | -1.849 |
| Pt/Pto 101-130 | .972 | .935 | .972 | .970 | 1.000 | 1.000 | .954 | .974 | .968 | | | | | |
| | 1.000 | 1.000 | 1.000 | .969 | .975 | .960 | 1.000 | 1.000 | .986 | | | | | |
| | .988 | .966 | 1.000 | 1.000 | .998 | .999 | .997 | 1.000 | 1.000 | | | | | |
| Ptc = 14.538 | Ptc/Pto = .986 | K = .0660 | | | | | | | | | | | | |
| Cp 310-320 | .778 | .699 | .817 | .650 | .501 | .198 | -.023 | -.028 | -.043 | -.028 | -.054 | | | |
| Cp 321-329 | -2.825 | .049 | .837 | .871 | .785 | .505 | .130 | -.040 | -.138 | | | | | |
| Ps 301-309 | 11.251 | 14.065 | 10.993 | 11.641 | 12.080 | 12.491 | 12.559 | 12.580 | 12.627 | | | | | |
| Ps 201-206 | 12.462 | 12.543 | 12.594 | 12.525 | 12.185 | 12.216 | | | | | | | | |
| Ps 207-212 | 11.819 | 11.891 | 11.946 | 11.907 | 11.831 | 11.748 | | | | | | | | |
| Ps 213-224 | 13.082 | 11.469 | 11.106 | 10.370 | 10.953 | 11.720 | 11.866 | 11.940 | 11.955 | 12.819 | -11.654 | 12.795 | | |
| Ps 225-236 | 12.300 | 11.153 | 10.230 | 10.126 | 10.382 | 10.802 | 11.221 | 11.430 | 11.573 | 12.282 | 12.674 | 12.923 | | |
| Ps 237-245 | 14.055 | 14.055 | 14.056 | 14.058 | 14.054 | 12.916 | 12.523 | 12.179 | 12.154 | | | | | |
| Pcw = 12.422 | L = .0581 | Pcb = 11.857 | Ptc/Pcw = 1.170 | Wc = 1.83 | T = 64. | B = 29.79 | | | | | | | | |

Run 33-8 C1 I1 S1 B Eng $\alpha = 0^\circ$ $\beta = -4^\circ$ $m/m^* = .697$ 0.742, 0.740

Pt/Pto 131-144

.999 .999 1.000 .999 .996 .994 .999 .999 .999 .997 .994 .984 .988

Cp 330-344

~~.999~~ -.264 -.609 -.581 -.537 .385 -.259 -.630 -.831 -.810 -.756 -1.016 -2.400 -.838 -1.938

Pt/Pto 101-130

.970 .940 .975 .968 1.000 1.000 1.000 .952 .978 .964
1.000 1.000 1.000 .982 .980 .961 1.000 1.000 .995
.994 .978 1.000 1.000 .999 .999 1.000 .999 1.000 .999

Ptc = 14.568 Ptc/Pto = .988 K = .0608

Cp 310-320

-1.865 ~~-.789~~ .809 .768 .642 .322 -.026 -.068 -.098 -.110 -.098

Cp 321-329

-1.984 .414 .918 .876 .759 .474 .191 .089 -.035

Ps 301-309 11.692 14.347 11.178 11.739 12.151 12.525 12.626 12.650 12.701

Ps 201-206 12.534 12.607 12.645 12.585 12.263 12.292

Ps 207-212 11.907 11.973 12.021 11.982 11.914 11.837

Ps 213-224 12.586 11.002 10.740 10.642 10.789 11.704 11.853 11.955 11.987 12.894 ~~12.887~~ 12.859

Ps 225-236 12.587 11.367 10.278 10.054 10.226 10.675 11.233 11.465 11.639 12.409 12.791 13.036

Ps 237-245 14.077 14.078 14.080 14.081 14.077 12.982 12.608 12.273 12.240

Pev = 12.488 L = .0262 Peb = 11.939 Ptc/Pev = 1.167 Wc = 1.82 T = 64. B = 29.79

999.

--.908 -2.136

[illegible]

CP 310-320

73 -.176

.002

Pa 301-309 11.428 14.018 10.986 11.574 11.979 12.396 12.481 12.487 12.572

Pa 201-206 12.421 12.510 12.544 12.482 12.138 12.169

| | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|
| Pa | 207-212 | 11.764 | 11.840 | 11.903 | 11.838 | 11.768 | 11.692 |
|----|---------|--------|--------|--------|--------|--------|--------|

Ps 213-224 12.470 10.847 10.578 10.470 10.618 11.582 11.733 11.835 11.865 12.763 ~~12.827~~ 12.747

| | | | | | | | | | | | | | |
|----|---------|--------|--------|-------|-------|--------|--------|--------|--------|-------|--------|--------|--------|
| Pa | 225-236 | 12.056 | 10.877 | 9.925 | 9.887 | 10.234 | 10.699 | 11.111 | 11.322 | 1.465 | 12.187 | 12.601 | 12.874 |
|----|---------|--------|--------|-------|-------|--------|--------|--------|--------|-------|--------|--------|--------|

Pr 237-245 14.064 14.065 14.065 14.067 14.065 12.871 12.471 12.115 12.094

$P_{ev} = 12.377$ $L = .0279$ $P_{eb} = 11.801$ $P_{tc}/P_{ev} = 1.173$ $W_c = 1.84$ $T = 64.$ $B = 29.79$

Run 33-10 C1 I1 S1 B1 Eng $\angle \alpha=0^\circ$ $\beta=4^\circ$ m/m² = ~~677~~ 0.744, 0.739

Pt/Pto 131-144
 .999 1.000 1.000 .999 .996 .994 .999 .999 .999 .996 .993 .984 .989

Cp 330-344
~~1.000~~ -.436 -.709 -.614 -.528 .399 -.243 -.633 -.830 -.816 -.753 -1.010 -2.406 -.825 -1.833

Pt/Pto 101-130
 .971 .968 .962 .957 .999 .999 1.000 .999 .972 .958
 1.000 .999 1.000 1.000 .991 .959 1.000 1.000 1.000
 1.000 .977 1.000 1.000 1.000 1.000 .999 1.000 1.000

Ptc = 14.605 Ptc/Pto = .990 K = .0430

Cp 310-320
 -1.616 ~~-.852~~ .931 .841 .698 .348 -.005 -.042 -.088 -.104 -.097

Cp 321-329
 -.637 .784 .862 .672 .528 .246 .035 -.009 -.088

Ps 301-309 11.885 14.636 11.307 11.854 12.267 12.584 12.669 12.716 12.751

Ps 201-206 12.565 12.632 12.684 12.615 12.292 12.325

Ps 207-212 11.946 12.011 12.050 12.018 11.954 11.875

Ps 213-224 12.659 11.115 10.859 10.771 10.912 11.785 11.929 12.019 12.044 12.942 ~~12.929~~ 12.898

Ps 225-236 13.187 11.975 10.761 10.381 10.339 10.682 11.448 11.561 11.689 12.543 12.889 13.123

Ps 237-245 14.081 14.081 14.081 14.083 14.081 13.013 12.650 12.327 12.288

Pcw = 12.519 L = .0268 Pcb = 11.976 Ptc/Pcw = 1.167 Wc = 1.83 T = 63. B = 29.80

Run 33-11 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=10^\circ$ $\frac{m}{m'} = \frac{4}{11}$ 0.742, 0.740

| | | | | | | | | | | | | | |
|----------------|------------------|------------------|--------|--------|-----------|--------|--------|--------|--------|--------|-------------------|--------|--------|
| Pt/Pto 131-144 | .999 | 1.000 | 1.000 | .999 | .996 | .994 | .998 | .998 | .998 | .996 | .992 | .984 | .988 |
| Cp 330-344 | -.999 | -.601 | -.823 | -.693 | -.578 | .347 | -.262 | -.653 | -.854 | -.832 | -.781 | -1.057 | -2.530 |
| | | | | | | | | | | | | | -.851 |
| | | | | | | | | | | | | | -1.839 |
| Pt/Pto 101-130 | .972 | .976 | .963 | .948 | .998 | 1.000 | 1.000 | 1.000 | .991 | .956 | | | |
| | .999 | 1.000 | 1.000 | 1.000 | .999 | .967 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| | 1.000 | .989 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| Ptc = 14.627 | Ptc/Pto = | .992 | K = | .0527 | | | | | | | | | |
| Cp 310-320 | -1.645 | -.917 | .917 | .835 | .682 | .323 | -.042 | -.078 | -.153 | -.165 | -.167 | | |
| Cp 321-329 | -.000 | .857 | .738 | .460 | .323 | .071 | -.083 | -.083 | -.134 | | | | |
| Ps 301-309 | 12.283 | 11.177 | 11.517 | 11.975 | 12.339 | 12.623 | 12.683 | 12.751 | 12.784 | | | | |
| Ps 201-206 | 12.592 | 12.658 | 12.717 | 12.640 | 12.325 | 12.358 | | | | | | | |
| Ps 207-212 | 11.982 | 12.047 | 12.085 | 12.053 | 11.992 | 11.913 | | | | | | | |
| Ps 213-224 | 12.681 | 11.205 | 10.971 | 10.899 | 11.038 | 11.868 | 12.007 | 12.087 | 12.102 | 12.972 | 12.982 | 12.929 | |
| Ps 225-236 | 13.557 | 12.409 | 11.173 | 10.734 | 10.590 | 10.898 | 11.628 | 11.671 | 11.757 | 12.577 | 12.981 | 13.235 | |
| Ps 237-245 | 14.084 | 14.084 | 14.083 | 14.081 | 14.083 | 13.031 | 12.680 | 12.368 | 12.327 | | | | |
| Pcv = 12.548 | L = | .0268 | Pcb = | 12.012 | Ptc/Pcv = | 1.166 | Wc = | 1.83 | T = | 63. | B = | 29.80 | |

Run 33-12 C1 I S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ m/m²=~~6.44~~ 0.740

Pt/Pto 131-144
 .999 1.000 .999 .998 .996 .994 .998 .998 .996 .997 .995 .991 .984 .988

Cp 330-344
~~361~~ -.609 -.838 -.679 -.545 .302 -.349 -.730 -.911 -.873 -.805 -1.051 -2.500 -.845 -1.788

Pt/Pto 101-130
 .973 .976 .963 .946 .998 .999 1.000 1.000 .994 .954
 1.000 1.000 1.000 1.000 .999 1.000 1.000 1.000 1.000 1.000
 1.000 .986 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.625 Ptc/Pto = .992 K = .0546

Cp 310-320
 -1.306 ~~-.930~~ .940 .805 .641 .281 -.044 -.068 -.133 -.136 -.131

Cp 321-329
 -.089 .900 .811 .557 .405 .159 -.002 -.037 -.101

Ps 301-309 12.255 11.300 11.441 11.817 12.190 12.612 12.676 12.747 12.778

Ps 201-206 12.587 12.649 12.720 12.634 12.319 12.353

Ps 207-212 11.976 12.038 12.075 12.044 11.986 11.903

Ps 213-224 12.807 11.302 11.038 10.931 11.058 11.865 12.000 12.080 12.094 12.966 ~~13.897~~ 12.924

Ps 225-236 13.473 12.309 11.078 10.652 10.531 10.842 11.600 11.643 11.733 12.566 12.976 13.236

Ps 237-245 14.083 14.083 14.084 14.085 14.083 13.024 12.675 12.362 12.320

Pcw = 12.544 L = .0274 Pcb = 12.004 Ptc/Pcw = 1.166 Wc = 1.83 T = 63. B = 29.80

Run 33-13 C1 I1 S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=-10^\circ$ m/m² = ~~677~~ 0.737

| | | | | | | | | | | | | |
|----------------|----------------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|-------------------|--------|
| Pt/Pto 131-144 | .999 | .999 | .998 | .996 | .994 | .999 | .999 | .999 | .996 | .993 | .984 | .988 |
| Cp 330-344 | .999 | .999 | .998 | .996 | .994 | .999 | .999 | .999 | .996 | .993 | .984 | .988 |
| | .999 | .999 | .998 | .996 | .994 | .999 | .999 | .999 | .996 | .993 | .984 | .988 |
| | .999 | .999 | .998 | .996 | .994 | .999 | .999 | .999 | .996 | .993 | .984 | .988 |
| Pt/Pto 101-130 | .968 | .919 | .975 | .984 | 1.000 | 1.000 | .933 | .980 | .973 | | | |
| | 1.000 | 1.000 | .993 | .946 | .976 | .963 | 1.000 | 1.000 | 1.000 | .965 | | |
| | .982 | .979 | 1.000 | 1.000 | .993 | .937 | .999 | 1.000 | 1.000 | | | |
| Ptc = 14.516 | Ptc/Pto = .984 | K = .0819 | | | | | | | | | | |
| Cp 310-320 | .638 | .592 | .474 | .175 | -.141 | -.189 | -.231 | -.182 | -.193 | | | |
| | .638 | .592 | .474 | .175 | -.141 | -.189 | -.231 | -.182 | -.193 | | | |
| Cp 321-329 | .827 | .946 | .684 | .627 | .271 | .111 | -.042 | | | | | |
| | .827 | .946 | .684 | .627 | .271 | .111 | -.042 | | | | | |
| Ps 301-309 | 11.259 | 13.933 | 10.991 | 11.617 | 12.009 | 12.407 | 12.494 | 12.502 | 12.584 | | | |
| Ps 201-206 | 12.432 | 12.521 | 12.556 | 12.497 | 12.151 | 12.183 | | | | | | |
| Ps 207-212 | 11.782 | 11.857 | 11.921 | 11.853 | 11.784 | 11.707 | | | | | | |
| Ps 213-224 | 12.603 | 10.974 | 10.680 | 10.543 | 10.679 | 11.616 | 11.755 | 11.652 | 11.883 | 12.775 | 12.866 | 12.757 |
| Ps 225-236 | 11.957 | 10.787 | 9.880 | 9.869 | 10.218 | 10.705 | 11.115 | 11.326 | 11.467 | 12.199 | 12.613 | 12.886 |
| Ps 237-245 | 14.076 | 14.077 | 14.077 | 14.079 | 14.075 | 12.880 | 12.482 | 12.127 | 12.107 | | | |
| Pev = 12.390 | L = .0278 | Peb = 11.817 | Ptc/Pev = 1.172 | Wc = 1.84 | T = 61. | B = 29.80 | | | | | | |

Run 33-14 C1 I1 S1 B1 Eng - $\alpha = -4^\circ$ $\beta = -10^\circ$ $m/m' = \frac{1}{2}$ 0.740

Pt/Pto 131-144

.999 .999 .933 .933 .937 .934 .993 .993 .999 .998 .995 .984 .989

Cp 330-344

-.314 -.100 -.426 -.533 -.545 .384 -.205 -.564 -.764 -.729 -1.032 -2.455 -.850 -2.654

Pt/Ptc 101-130

.969 .919 .975 .977 1.000 1.000 .933 .980 .972
1.000 1.000 .943 .978 .973 1.000 1.000 .972
.986 .989 1.000 1.000 1.000 .977 .999 .999 1.000 1.000

Ptc = 14.535 Ptc/Ptc = .985 K = .0815

Cp 310-320

-2.550 -1.004 .679 .682 .596 .310 -.047 -.098 -.121 -.144 -.142

Cp 321-329

-3.002 .049 .906 .946 .859 .596 .298 .170 .040

Ps 301-309 11.656 14.221 11.036 11.580 11.961 12.420 12.439 12.512 12.600

Ps 201-206 12.449 12.538 12.565 12.511 12.166 12.198

Ps 207-212 11.738 11.271 11.928 11.867 11.803 11.726

Ps 213-224 12.354 10.756 10.516 10.445 10.601 11.590 11.751 11.857 11.894 12.794 ~~12.832~~ 12.772

Ps 225-236 12.175 10.969 9.991 9.918 10.254 10.713 11.145 11.356 11.512 12.241 12.641 12.910

Ps 237-245 14.081 14.082 14.083 14.083 14.080 12.899 12.505 12.152 12.127

Pcw = 14.404 L = .0274 Pcb = 11.832 Ptc/Pcw = 1.172 Wc = 1.84 T = 61. B = 29.80

Run 33-15 C1 L1 S1 B1 Eng $\angle \alpha = -4^\circ$ $\beta = 10^\circ$ $m/m^* = 0.742$

Pt/Pto 131-144

.999 1.000 1.000 .999 .997 .935 .998 .993 .998 .998 .996 .993 .985 .989

Cp 330-344

~~-.580~~ -.580 -.803 -.630 -.589 .399 -.178 -.554 -.772 -.770 -.737 -1.025 -2.485 -.838 -1.828

Pt/Pto 101-130

.973 .977 .965 .949 .998 1.000 1.000 1.000 .991 .957
1.000 1.000 1.000 1.000 1.000 .969 1.000 1.000 1.000 1.000
1.000 .991 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.633 Ptc/Pto = .992 K = .0513

Cp 310-320

-1.894 -1.041 .922 .854 .709 .350 -.028 -.077 -.167 -.183 -.199

Cp 321-329

.169 .863 .645 .361 .221 -.023 -.157 -.148 -.185

Ps 301-309 12.361 11.206 11.630 12.084 12.430 12.648 12.706 12.769 12.804

Ps 201-206 12.614 12.679 12.739 12.661 12.347 12.382

Ps 207-212 12.010 12.072 12.110 12.081 12.019 11.939

Ps 213-224 12.588 11.144 10.938 10.898 11.048 11.893 12.030 12.112 12.128 12.989 ~~12.962~~ 12.945

Ps 225-236 13.649 12.508 11.286 10.839 10.672 10.959 11.679 11.715 11.795 12.598 13.001 13.260

Ps 237-245 14.098 14.097 14.098 14.100 14.097 13.046 12.702 12.393 12.352

Pev = 12.570 L = .0267 Peb = 12.039 Ptc/Pev = 1.164 We = 1.83 T = 61. B = 29.80

Run 34-1 C1 I1 S1 B1 Eng 2 a = 0° $\beta = 0^\circ$ m/m* = ~~7.11~~ 0.813, 0.815

| | | | | | | | | | | | | | | | |
|----------------|------------------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|-------------------|--------|---------|-------|--------|
| Pt/Pto 131-144 | .999 | 1.000 | .999 | .996 | .994 | .999 | .999 | .999 | .999 | .996 | .993 | .982 | .988 | | |
| Cp 330-344 | 1.04 | -.340 | -.671 | -.629 | -.593 | .400 | -.253 | -.653 | -.868 | -.851 | -.811 | -1.194 | -.3.012 | -.969 | -2.355 |
| Pt/Pto 101-130 | | | | | | | | | | | | | | | |
| .960 | .930 | .966 | .954 | 1.000 | 1.000 | 1.000 | .965 | .969 | .952 | | | | | | |
| 1.000 | 1.000 | 1.000 | .988 | .978 | .949 | 1.000 | 1.000 | 1.000 | .999 | | | | | | |
| .996 | .971 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | | | | | | |
| Ptc = 14.538 | Ptc/Pto = .986 | K = .0708 | | | | | | | | | | | | | |
| Cp 310-320 | | | | | | | | | | | | | | | |
| -3.138 | 2.119 | .859 | .880 | .759 | .430 | .033 | -.012 | -.066 | -.080 | -.080 | | | | | |
| Cp 321-329 | | | | | | | | | | | | | | | |
| -2.308 | .370 | .939 | .849 | .721 | .433 | .165 | .066 | -.047 | | | | | | | |
| Ps 301-309 | 11.173 | 13.043 | 14.064 | 10.837 | 11.416 | 11.842 | 11.975 | 12.018 | 12.078 | | | | | | |
| Ps 201-206 | 11.818 | 11.922 | 11.965 | 11.889 | 11.469 | 11.512 | | | | | | | | | |
| Ps 207-212 | 10.969 | 11.063 | 11.125 | 11.063 | 10.958 | 10.857 | | | | | | | | | |
| Ps 213-224 | 11.913 | 9.970 | 9.616 | n.g. | 9.548 | 10.717 | 10.967 | 11.094 | 11.128 | 12.336 | 12.362 | 12.276 | | | |
| Ps 225-236 | 12.326 | 10.865 | n.g. | n.g. | n.g. | n.g. | 10.172 | 10.486 | 10.710 | 11.738 | 12.221 | 12.533 | | | |
| Ps 237-245 | 13.911 | 13.914 | 13.915 | 13.916 | 13.913 | 12.424 | 11.957 | 11.513 | 11.472 | | | | | | |
| Pcw = 11.762 | L = .0341 | Pcb = 11.006 | Ptc/Pcw = 1.236 | yc = 2.04 | T = 61. | B = 29.80 | | | | | | | | | |

Run 34-2 CL IL SL BL Eng 2 $\alpha = 1.5^\circ$ $\beta = 0^\circ$ $m/m^* = .711$ 0.818

Pt/Pto 131-144

.999 1.000 1.000 .999 .997 .994 .999 .999 .999 .997 .994 .982 .988

Cp 330-344

~~.999~~ -.297 -.625 -.592 -.573 .443 -.172 -.564 -.797 -.807 -.783 -1.184 -3.023 -.960 -2.344

Pt/Pto 101-130

.960 .932 .966 .955 .999 1.000 1.000 .972 .969 .954
1.000 1.000 1.000 .992 .979 .953 1.000 1.000 .999
.997 .978 1.000 1.000 1.000 1.000 .999 1.000 1.000

Ptc = 14.552 Ptc/Pto = .987 K = .0685

Cp 310-320

-3.489 ~~1.196~~ .857 .908 .807 .479 .050 .002 -.050 -.078 -.085

Cp 321-329

-2.053 .419 .887 .804 .670 .370 .116 .035 -.047

Ps 301-309 11.353 13.142 14.108 10.841 11.400 11.863 11.989 12.036 12.094

Ps 201-206 11.841 11.944 11.983 11.909 11.489 11.534

Ps 207-212 10.996 11.090 11.149 11.088 10.986 10.886

Ps 213-224 11.768 9.848 9.523 n.g. 9.512 10.722 10.975 11.105 11.147 12.358 ~~12.375~~ 12.295

Ps 225-236 12.431 10.961 n.g. n.g. n.g. 10.226 10.518 10.737 11.770 12.243 12.550

Ps 237-245 13.914 13.914 13.916 13.917 13.914 12.446 11.979 11.540 11.497

Pcw = 11.783 L = .0339 Peb = 11.032 Ptc/Pcw = 1.235 Wc = 2.04 T = 60. B = 29.80

Run 34-3 C1 I1 S1 B1 Eng 2 $\alpha = 10^\circ$ $\beta = 0^\circ$ m/m² ~~711~~ 0.813, 0.819

| | | | | | | | | | | | |
|----------------|----------------|------------------|------------|--------|-----------|--------|--------|--------|--------|--------------------------|----------------------------|
| Pt/Pto 131-144 | .999 | 1.000 | 1.000 | .997 | .995 | .999 | .999 | .998 | .995 | .982 | .989 |
| Cp 330-344 | 101 | .208 | -.528 | -.524 | -.516 | .524 | -.021 | -.403 | -.651 | -.686 | -1.130 -3.005 -.899 -2.316 |
| Pt/Pto 101-130 | .959 | .938 | .966 | .955 | .999 | 1.000 | 1.000 | .983 | .968 | .958 | |
| | 1.000 | .999 | 1.000 | .996 | .980 | .962 | 1.000 | 1.000 | 1.000 | 1.000 | |
| | .998 | .986 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | |
| Ptc = 14.574 | Ptc/Pto = | | .988 | K = | | .0628 | | | | | |
| Cp 310-320 | -4.196 | 1.166 | .797 | .936 | .870 | .573 | .127 | .057 | -.014 | -.047 | -.073 |
| Cp 321-329 | -1.774 | .478 | .847 | .700 | .561 | .276 | .031 | -.026 | -.073 | | |
| Ps 301-309 | 11.609 | 13.267 | 14.190 | 10.886 | 11.442 | 11.892 | 12.005 | 12.056 | 12.122 | | |
| Ps 201-206 | 11.860 | 11.965 | 12.000 | 11.931 | 11.511 | 11.557 | | | | | |
| Ps 207-212 | 11.022 | 11.116 | 11.173 | 11.113 | 11.013 | 10.915 | | | | | |
| Ps 213-224 | 11.511 | 9.647 n.g. | n.g. | n.g. | 9.449 | 10.746 | 10.987 | 11.122 | 11.167 | 12.380 12.392 | 12.311 |
| Ps 225-236 | 12.559 | 11.092 | 9.511 n.g. | n.g. | n.g. | 10.312 | 10.559 | 10.766 | 11.815 | 12.273 | 12.571 |
| Ps 237-245 | 13.920 | 13.922 | 13.922 | 13.924 | 13.920 | 12.466 | 12.002 | 11.568 | 11.523 | | |
| Pcw = 11.804 | L = | .0336 | Pcb = | 11.059 | Ptc/Pcw = | 1.235 | Wc = | 2.05 | T = | 60. | B = 29.80 |

Run 34-4 C1 I1 S1 B1 Eng 2 as-20° $\beta = 0^\circ$ m/m* = ~~741~~ 0.817

| | | | | | | | | | | | | | |
|----------------|-----------------|------------------|--------|--------|-----------|--------|--------|--------|--------|--------|-------------------|--------|--------------|
| Pt/Pto 131-144 | .999 | 1.000 | 1.000 | 1.000 | .999 | .997 | .999 | .999 | .999 | .999 | .997 | .983 | .989 |
| Cp 330-344 | .999 | -.063 | -.330 | -.388 | -.418 | .653 | .242 | -.086 | -.342 | -.451 | -.472 | -.969 | -2.888 |
| | | | | | | | | | | | | | -.750 -2.182 |
| Pt/Pto 101-130 | .957 | .943 | .963 | .955 | .999 | 1.000 | 1.000 | .993 | .966 | .967 | | | |
| | 1.000 | 1.000 | 1.000 | .999 | .982 | .977 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| | .999 | .995 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| Ptc = 14.597 | Ptc/Pto = | .990 | K = | .0574 | | | | | | | | | |
| Cp 310-320 | -5.627 | 1.169 | .628 | .941 | .939 | .718 | .267 | .184 | .088 | .028 | | | -.019 |
| Cp 321-329 | -1.571 | .403 | .668 | .476 | .342 | .058 | -.156 | -.170 | -.188 | | | | |
| Ps 301-309 | 11.955 | 13.419 | 14.310 | 10.982 | 11.513 | 11.922 | 12.020 | 12.083 | 12.155 | | | | |
| Ps 201-206 | 11.889 | 11.990 | 12.023 | 11.962 | 11.540 | 11.586 | | | | | | | |
| Ps 207-212 | 11.058 | 11.148 | 11.205 | 11.147 | 11.049 | 10.951 | | | | | | | |
| Ps 213-224 | 11.001 | n.g. | n.g. | n.g. | n.g. | 10.703 | 10.990 | 11.135 | 11.190 | 12.408 | 12.403 | 12.336 | |
| Ps 225-236 | 12.704 | 11.257 | 9.647 | n.g. | n.g. | n.g. | 10.411 | 10.604 | 10.788 | 11.875 | 12.315 | 12.614 | |
| Ps 237-245 | 13.927 | 13.930 | 13.932 | 13.933 | 13.930 | 12.491 | 12.034 | 11.603 | 11.555 | | | | |
| Pcw = 11.832 | L = | .0331 | Pcb = | 11.093 | Ptc/Pcw = | 1.234 | Wc = | 2.05 | T = | 60. | B = | 29.80 | |

Run 34-5 C1 I1 S1 B1 Eng 2 C=4° P=0° m/m* = ~~721~~ 0.813

Pt/Pto 131-144

.999 .999 .928 .935 .933 .999 .999 .998 .995 .992 .981 .986

Cp 330-344

~~026~~ -.395 -.725 -.647 -.609 .360 -.336 -.727 -.932 -.890 -.840 -1.186 -2 985 -.974 -2 341

Pt/Pto 101-130

.960 .967 .955 .922 .990 1.000 .957 .969 .952
1.000 .999 1.000 .982 .977 .945 1.000 1.000 .978
.995 .965 1.000 1.000 1.000 1.000 .997 1.000 1.000

Ptc = 14.523 Pt/Pto = .985 K = .6745

Cp 310-320

-2.744 ~~1.223~~ .845 .842 .720 .386 .062 -.031 -.071 -.080 -.058

Cp 321-329

-2.535 .268 .915 .692 .774 .482 .185 .071 -.045

Ps 301-309 10 975 12.941 14 047 10.873 11.452 11.847 11.994 12.036 12.091

Ps 201-206 11.833 11.940 11.986 11.909 11.487 11.534

Ps 207-212 10.995 11.090 11.153 11.092 10.990 10.887

Ps 213-224 12.065 10.106 9.727 9.473 9.609 10.741 10.992 11.116 11.150 12.348 ~~12.394~~ 12 292

Ps 225-236 12.231 10.788 n.g. n.g. n.g. 10.177 10.492 10.720 11.742 12.228 12 539

Ps 237-245 13.914 13.915 13.916 13.917 13.911 12.441 11.973 11.536 11.492

Pcw = 11.783 L = .0345 Pco = 11.035 Ptc/Pcw = 1.233 Wc = 2 03 T = 60. B = 29.80

Run 34-6 C1 I1 S1 B1 Eng 2 $\alpha=10^\circ$ $\beta=0^\circ$ m/m² ~~777~~ 0.811

| | | | | | | | | | | | | | |
|----------------|------------------|--------|--------|--------|-----------|--------|--------|--------|--------|--------|-------------------|--------|--------------|
| Pt/Pto 131-144 | .999 | .999 | .997 | .994 | .993 | .999 | .999 | .998 | .996 | .994 | .991 | .981 | .986 |
| Cp 330-344 | .075 | -.463 | -.782 | -.681 | -.639 | .300 | -.435 | -.826 | -.929 | -.850 | -1.168 | -2.938 | -.971 -2.327 |
| Pt/Pto 101-130 | .961 | .923 | .965 | .956 | .999 | 1.000 | 1.000 | .949 | .969 | .953 | | | |
| | 1.000 | .999 | 1.000 | .974 | .944 | 1.000 | 1.000 | 1.000 | 1.000 | .995 | | | |
| | .993 | .960 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .998 | 1.000 | 1.000 | | | |
| Ptc = 14.507 | Ptc/Pto = | .984 | K = | .0786 | | | | | | | | | |
| Cp 310-320 | 1.037 | .861 | .791 | .658 | .325 | -.007 | -.040 | -.077 | -.066 | -.049 | | | |
| Cp 321-329 | -3.027 | .099 | .910 | .920 | .817 | .531 | .199 | .059 | -.091 | | | | |
| Ps 301-309 | 10.706 | 12.785 | 14.159 | 10.954 | 11.442 | 11.805 | 11.967 | 12.004 | 12.060 | | | | |
| Ps 201-206 | 11.805 | 11.911 | 11.962 | 11.882 | 11.455 | 11.502 | | | | | | | |
| Ps 207-212 | 10.956 | 11.053 | 11.120 | 11.058 | 10.950 | 10.848 | | | | | | | |
| Ps 213-224 | 12.247 | 10.266 | 9.844 | 9.541 | 9.636 | 10.734 | 10.979 | 11.094 | 11.125 | 12.315 | 12.352 | 12.262 | |
| Ps 225-236 | 12.043 | 10.615 | n.g. | n.g. | n.g. | 9.478 | 10.098 | 10.440 | 10.666 | 11.687 | 12.179 | 12.488 | |
| Ps 237-245 | 13.909 | 13.910 | 13.910 | 13.911 | 13.909 | 12.412 | 11.937 | 11.490 | 11.455 | | | | |
| Pcw = 11.753 | L = | .0349 | Pcb = | 10.998 | Ptc/Pcw = | 1.234 | Wc = | 2.04 | T = | 60. | B = | 29.80 | |

Ann 34-7 Cl Il Si B2 BrG 2 $\alpha=20^\circ$ $\beta=0^\circ$ $\gamma/\alpha=222$ 0.811

Pt/Pto 131-144

.929 .930 .931 .932 .933 .934 .935 .936 .937 .938 .939 .940 .941 .942 .943 .944 .945 .946 .947 .948 .949 .950 .951 .952 .953 .954 .955 .956 .957 .958 .959 .960 .961 .962 .963 .964 .965 .966 .967 .968 .969 .970 .971 .972 .973 .974 .975 .976 .977 .978 .979 .980 .981 .982 .983 .984 .985 .986 .987 .988 .989 .990 .991 .992 .993 .994 .995 .996 .997 .998 .999 .1000

Cp 330-344

~~.929~~ .930 .931 .932 .933 .934 .935 .936 .937 .938 .939 .940 .941 .942 .943 .944 .945 .946 .947 .948 .949 .950 .951 .952 .953 .954 .955 .956 .957 .958 .959 .960 .961 .962 .963 .964 .965 .966 .967 .968 .969 .970 .971 .972 .973 .974 .975 .976 .977 .978 .979 .980 .981 .982 .983 .984 .985 .986 .987 .988 .989 .990 .991 .992 .993 .994 .995 .996 .997 .998 .999 .1000

Pt/Pto 101-130

.900 .901 .902 .903 .904 .905 .906 .907 .908 .909 .910 .911 .912 .913 .914 .915 .916 .917 .918 .919 .920 .921 .922 .923 .924 .925 .926 .927 .928 .929 .930 .931 .932 .933 .934 .935 .936 .937 .938 .939 .940 .941 .942 .943 .944 .945 .946 .947 .948 .949 .950 .951 .952 .953 .954 .955 .956 .957 .958 .959 .960 .961 .962 .963 .964 .965 .966 .967 .968 .969 .970 .971 .972 .973 .974 .975 .976 .977 .978 .979 .980 .981 .982 .983 .984 .985 .986 .987 .988 .989 .990 .991 .992 .993 .994 .995 .996 .997 .998 .999 .1000

Pto = 14.466 Pto/Pto = .932 K = .6875

Cp 310-320

~~.929~~ .930 .931 .932 .933 .934 .935 .936 .937 .938 .939 .940 .941 .942 .943 .944 .945 .946 .947 .948 .949 .950 .951 .952 .953 .954 .955 .956 .957 .958 .959 .960 .961 .962 .963 .964 .965 .966 .967 .968 .969 .970 .971 .972 .973 .974 .975 .976 .977 .978 .979 .980 .981 .982 .983 .984 .985 .986 .987 .988 .989 .990 .991 .992 .993 .994 .995 .996 .997 .998 .999 .1000

Cp 321-329

~~.929~~ .930 .931 .932 .933 .934 .935 .936 .937 .938 .939 .940 .941 .942 .943 .944 .945 .946 .947 .948 .949 .950 .951 .952 .953 .954 .955 .956 .957 .958 .959 .960 .961 .962 .963 .964 .965 .966 .967 .968 .969 .970 .971 .972 .973 .974 .975 .976 .977 .978 .979 .980 .981 .982 .983 .984 .985 .986 .987 .988 .989 .990 .991 .992 .993 .994 .995 .996 .997 .998 .999 .1000

Ps 301-309 14.449 12.485 14.024 10.876 11.292 11.770 11.809 11.950

Ps 201-206 11.736 11.294 11.993 11.914 11.374 11.420

Ps 207-212 10.861 10.967 11.050 10.977 10.882 10.747

Ps 213-224 12.477 10.493 10.025 9.654 9.704 10.795 10.970 11.065 11.077 12.207 ~~12.276~~ 12.184

Ps 225-236 11.696 10.345 n.g. n.g. n.g. 9.673 10.125 10.405 10.595 11.493 12.003 12.336

Ps 237-245 13.889 13.889 13.891 13.894 13.882 12.328 11.532 11.369 11.350

Pev = 11.684 L = .6365 Pto = 10.910 Pto/Pto = 1.030 Wc = 2.04 T = 60. B = 23.79

Run 34-8 C1 I1 S1 B1 Eng 2 L=C° $\rho = -10^3$ m/m² = ~~1.1~~ 0.802

| | | | | | | | | | | | |
|----------------|------------------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|-----------------------------|
| Pt/Pto 131-144 | .999 | .999 | .998 | .995 | .994 | .993 | .993 | .997 | .994 | .982 | .987 |
| Cp 330-344 | | | | | | | | | | | |
| 166 | -.212 | -.615 | -.643 | -.692 | .519 | -.316 | -.673 | -.876 | -.834 | -.831 | -1.192 -2.332 -1.015 -2.430 |
| Pt/Pto 101-130 | | | | | | | | | | | |
| .960 | .834 | .972 | .978 | .999 | 1.000 | 1.000 | .911 | .975 | .969 | | |
| 1.000 | 1.000 | 1.000 | .928 | .969 | .921 | 1.000 | 1.000 | 1.000 | .955 | | |
| .977 | .982 | 1.000 | 1.000 | .993 | .997 | .999 | 1.000 | 1.000 | 1.000 | | |
| Ptc = 14.456 | Ptc/Ptc = .980 | K = .1075 | | | | | | | | | |
| Cp 310-320 | | | | | | | | | | | |
| -3.327 | 1.497 | .600 | .554 | .556 | .282 | -.684 | -.133 | -.172 | -.170 | -.172 | |
| Cp 321-329 | | | | | | | | | | | |
| -4.292 | -.413 | .786 | .950 | .899 | .645 | .314 | .156 | .009 | | | |
| Ps 301-309 | 10.875 | 12.720 | 13.977 | 10.782 | 11.301 | 11.776 | 11.956 | 11.855 | 11.971 | | |
| Ps 201-206 | 11.771 | 11.894 | 11.925 | 11.854 | 11.414 | 11.457 | | | | | |
| Ps 207-212 | 10.708 | 11.019 | 11.106 | 11.004 | 10.900 | 10.798 | | | | | |
| Ps 213-224 | 11.915 | 9.971 | 9.915 | n.g. | 9.523 | 10.681 | 10.952 | 11.076 | 11.106 | 12.213 | 12.198 12.198 |
| Ps 225-236 | 11.550 | 10.164 | n.g. | n.g. | n.g. | 9.764 | 10.178 | 10.441 | 10.624 | 11.478 | 11.938 12.353 |
| Ps 237-245 | 13.937 | 13.239 | 13.942 | 13.941 | 13.938 | 12.337 | 11.847 | 11.583 | 11.373 | | |
| Pcv = 11.719 | L = .0354 | Feb = 10.956 | Ptc/Pcv = 1.234 | Wc = 2.03 | T = 59. | B = 29.79 | | | | | |

Run 34-9 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=10^\circ$ $x/m^* = .224$, 0.219

| | | | | | | | | | | | | | | |
|----------------|-------------------|--------------|-----------------|-----------|--------|--------|-----------|--------|--------|--------|-------------------|--------|-------|--------|
| Pt/Pto 131-144 | .999 | .999 | .999 | .996 | .994 | .998 | .998 | .998 | .995 | .991 | .981 | .987 | | |
| Cp 330-344 | .997 | .608 | -.840 | -.720 | -.631 | .345 | -.277 | -.673 | -.889 | -.842 | -1.237 | -3.142 | -.986 | -2.271 |
| Pt/Pto 101-130 | .963 | .965 | .947 | .937 | .926 | 1.000 | 1.000 | 1.000 | .981 | .943 | | | | |
| | 1.000 | .999 | 1.000 | 1.000 | .996 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | | | | |
| | 1.000 | .979 | 1.000 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | 1.000 | | | | |
| Ptc = 14.573 | Ptc/Pto = .980 | K = .0635 | | | | | | | | | | | | |
| Cp 310-320 | -3.005 | .912 | .903 | .763 | .408 | .000 | -.052 | -.134 | -.157 | -.164 | | | | |
| Cp 322-329 | -.774 | .734 | .793 | .567 | .434 | .155 | -.023 | -.052 | -.100 | | | | | |
| Ps 301-309 | 11.440 | 13.808 | 14.325 | 10.879 | 11.395 | 11.909 | 12.014 | 12.103 | 12.148 | | | | | |
| Ps 201-206 | 11.853 | 11.955 | 12.025 | 11.932 | 11.512 | 11.564 | | | | | | | | |
| Ps 207-212 | 11.031 | 11.125 | 11.174 | 11.110 | 11.021 | 10.922 | | | | | | | | |
| Ps 213-224 | 11.940 | 10.072 | 9.744 | 9.569 | 9.709 | 10.387 | 11.074 | 11.182 | 11.204 | 12.399 | 12.398 | 12.331 | | |
| Ps 225-236 | 13.002 | 11.576 | 9.945 | n.g. | n.g. | n.g. | 10.563 | 10.621 | 10.748 | 11.857 | 12.404 | 12.710 | | |
| Ps 237-245 | 13.906 | 13.907 | 13.908 | 13.909 | 13.907 | 12.471 | 12.023 | 11.594 | 11.548 | | | | | |
| Pev = 11.809 | L = .0353 | Pob = 11.005 | Ptc/Pev = 1.234 | Wc = 2.05 | T | 59. | B = 29.79 | | | | | | | |

Run 25-1 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^* = .647$ 0.660

Pt/Pto 131-144

1.000 .999 .999 .996 .992 .989 .999 .999 .999 .997 .993 .989 .981 .982

Cp 330-344

~~.157~~ -.288 -.565 -.465 -.290 .448 -.176 -.538 -.714 -.650 -.554 -.470 -.853 -.386 -.660

Pt/Pto 101-130

.976 .980 .970 .957 1.000 1.000 1.000 1.000 .994 .962
1.000 1.000 1.000 1.000 1.000 .972 1.000 1.000 1.000 1.000
1.000 .989 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.823 Ptc/Pto = .993 K = .0435

Cp 310-320

~~.898~~ .674 .427 .282 .016 -.119 -.117 -.134 -.116 -.085

Cp 321-329

.912 .951 .652 .412 .307 .102 -.035 -.059 -.124

Ps 301-309 12.621 11.911 12.307 12.648 12.890 13.097 13.175 13.227 13.260

Ps 201-206 13.093 13.171 13.234 13.142 12.832 12.860

Ps 207-212 12.596 12.647 12.679 12.659 12.602 12.535

Ps 213-224 13.971 12.410 12.018 11.813 11.897 12.471 12.623 12.683 12.699 13.419 13.443 13.382

Ps 225-236 14.099 12.901 11.737 11.378 11.304 11.559 12.236 12.283 12.364 13.075 13.420 13.638

Ps 237-245 14.260 14.262 14.262 14.262 14.261 13.471 13.161 12.897 12.861

Pcw = 13.055 L = .0271 Feb = 12.620 Ptc/Pcw = 1.135 Wc = 1.68 T = 87. B = 29.90

Run 25-2 C1 I1 S. B1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ m/m*=-.610 0.662

Pt/Pto 131-144

1.000 .999 1.000 .998 .993 .990 .999 1.000 1.000 .999 .994 .990 .981 .983

Cp 330-344

.160- -.237 -.513 -.436 -.281 .492 -.091 -.449 -.638 -.597 -.513 -.455 -.855 -.369 -.658

Pt/Pto 101-130

.975 .980 .971 .959 .999 1.000 1.000 1.000 .996 .964
1.000 1.000 1.000 1.000 1.000 .975 1.000 1.000 1.000 1.000
1.000 .992 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.826 Ptc/Pto = .994 K = .0417

Cp 310-320

.834 .953 .728 .502 .354 .081 -.086 -.094 -.116 -.110 -.090

Cp 321-329

.931 .900 .561 .332 .234 .041 -.076 -.082 -.128

Ps 301-309 12.720 11.960 12.402 12.737 12.963 13.117 13.193 13.245 13.280

Ps 201-206 13.115 13.192 13.259 13.162 12.855 12.885

Ps 207-212 12.623 12.673 12.707 12.686 12.629 12.562

Ps 213-224 13.848 12.297 11.937 11.778 11.884 12.495 12.638 12.702 12.718 13.436 13.458 13.401

Ps 225-236 14.194 13.033 11.862 11.486 11.387 11.636 12.285 12.323 12.400 13.096 13.441 13.664

Ps 237-245 14.267 14.267 14.269 14.270 14.269 13.489 13.182 12.920 12.885

Pcv = 13.078 L = .0272 Pcb = 12.647 Ptc/Pcv = 1.134 Wc = 1.68 T = 87. B = 29.90

Run 25-3 C1 I1 S1 B1 Eng 2 $\alpha=10^\circ$ $\beta=0^\circ$ $m/m^*=610$ 0.661

Pt/Pto 131-144

1.000 .999 1.000 .999 .995 .991 .999 1.000 1.000 .996 .992 .981 .983

Cp 330-344

.153 -.156 -.421 -.380 -.264 .564 .053 -.293 -.493 -.433 -.416 -.853 -.332 -.646

Pt/Pto 101-130

.974 .980 .970 .961 1.000 1.000 1.000 1.000 .998 .969
1.000 1.000 1.000 1.000 .980 1.000 1.000 1.000 1.000
1.000 .996 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.835 Ptc/Pto = .994 K = .0389

Cp 310-320

.672 .944 .825 .625 .479 .196 -.019 -.044 -.081 -.086 -.085

Cp 321-329

.917 .799 .426 .194 .103 -.072 -.164 -.149 -.167

Ps 301-309 12.818 12.008 12.525 12.858 13.043 13.124 13.199 13.251 13.284

Ps 201-206 13.120 13.196 13.270 13.169 12.860 12.889

Ps 207-212 12.627 12.678 12.712 12.691 12.634 12.566

Ps 213-224 13.593 12.061 11.759 11.675 11.811 12.495 12.626 12.697 12.721 13.440 13.468 13.405

Ps 225-236 14.303 13.189 12.007 11.603 11.466 11.708 12.318 12.350 12.420 13.101 13.448 13.677

Ps 237-245 14.274 14.274 14.274 14.275 14.274 13.494 13.186 12.924 12.888

Pcv = 13.084 L = .0276 Pcb = 12.652 Ptc/Pcv = 1.134 Wc = 1.68 T = 87. B = 29.90

Run 25-4 C1 I1 S1 B1 Eng 2 $\alpha = -20^\circ$ $\beta = 0^\circ$ $m/m^* = 620$ 0.663

Pt/Pto 131-144

1.000 1.000 1.000 1.000 .998 .994 1.000 1.000 1.000 1.000 .999 .995 .982 .982

Cp 330-344

.981 - .017 - .240 - .256 - .205 .700 .320 .017 - .197 - .241 - .230 - .302 - .846 - .223 - .598

Pt/Pto 101-130

.972 .980 .968 .966 .999 1.000 1.000 1.000 .999 .983
1.000 1.000 1.000 1.000 .989 1.000 1.000 1.000 1.000 1.000
1.000 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.851 Ptc/Pto = .995 K = .0343

Cp 310-320

.194 .968 .972 .822 .695 .427 .133 .099 .028 .001 - .030

Cp 321-329

.845 .642 .202 - .028 - .108 - .270 - .349 - .302 - .282

Ps 301-309 13.373 12.143 12.785 13.070 13.179 13.164 13.223 13.279 13.322

Ps 201-206 13.148 13.223 13.295 13.197 12.887 12.917

Ps 207-212 12.660 12.711 12.745 12.726 12.668 12.602

Ps 213-224 13.043 11.613 11.444 11.507 11.682 12.487 12.623 12.710 12.742 13.464 13.486 13.425

Ps 225-236 14.411 13.382 12.208 11.779 11.602 11.833 12.386 12.415 12.477 13.133 13.475 13.707

Ps 237-245 14.295 14.296 14.296 14.297 14.296 13.516 13.212 12.950 12.920

Pcv = 13.111 L = .0274 Pcb = 12.685 Ptc/Pcv = 1.133 Wc = 1.67 T = 88. B = 29.90

Run 25-5 C1 I1 S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ $m/m^*=.620$ 0.658

Pt/Pto 131-144

1.000 .999 .998 .994 .991 .988 .999 .999 .998 .995 .991 .988 .980 .981

Cp 330-344

~~.151~~ -.344 -.617 -.491 -.303 .403 -.262 -.625 -.782 -.695 -.583 -.473 -.844 -.390 -.650

Pt/Pto 101-130

.977 .980 .970 .955 .999 1.000 1.000 1.000 .992 .961
1.000 1.000 1.000 1.000 1.000 .970 1.000 1.000 1.000 1.000
1.000 .986 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.821 Ptc/Pto = .993 K = .0453

Cp 310-320

.939 ~~.944~~ .601 .346 .204 -.048 -.145 -.139 -.146 -.115 -.083

Cp 321-329

.852 .970 .733 .486 .377 .157 -.005 -.049 -.125

Ps 301-309 12.499 11.902 12.229 12.575 12.841 13.102 13.179 13.235 13.264

Ps 201-206 13.099 13.175 13.238 13.145 12.838 12.865

Ps 207-212 12.603 12.651 12.686 12.665 12.609 12.541

Ps 213-224 14.105 12.552 12.129 11.880 11.943 12.471 12.635 12.693 12.703 13.421 - 13.465 13.388

Ps 225-236 13.994 12.779 11.628 11.295 11.253 11.512 12.217 12.271 12.359 13.077 13.418 13.627

Ps 237-245 14.258 14.258 14.258 14.260 14.258 13.475 13.164 12.900 12.875

Pev = 13.060 L = .0270 Pcb = 12.626 Ptc/Pev = 1.135 Wc = 1.68 T = 88. B = 29.90

[illegible]

| | | | | | | | | | | |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Pt/Pto 101-130 | .978 | .979 | .967 | .955 | 1.000 | 1.000 | 1.000 | 1.000 | .987 | .961 |
| | 1.000 | 1.000 | 1.000 | 1.000 | .999 | .969 | 1.000 | 1.000 | 1.000 | 1.000 |
| | 1.000 | .984 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 |

| | | | | | | | | | |
|------|---------|------|------|-------|-------|-------|-------|-------|-------|
| Cp | 310-320 | | | | | | | | |
| .937 | .473 | .250 | .120 | -.112 | -.161 | -.145 | -.142 | -.096 | -.062 |
| .932 | | | | | | | | | |

Gp 321-329
 .703 .950 .804 .589 .475 .233 .022 -.060 -.161

Pa 301-309 12.392 11.847 12.088 12.429 12.724 13.079 13.150 13.209 13.243

Pa 201-206 13.083 13.159 13.221 13.131 12.822 12.848

Ps 207-212 12.583 12.631 12.665 12.645 12.591 12.523

| | | | | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ps 213-224 | 14.246 | 12.712 | 12.252 | 11.946 | 11.976 | 12.442 | 12.631 | 12.681 | 12.690 | 13.405 | 13.434 | 13.374 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | | |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| P ₃ | 225-236 | 13.785 | 12.536 | 11.432 | 11.144 | 11.159 | 11.416 | 12.159 | 12.232 | 12.331 | 13.059 | 13.387 | 13.583 |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Pr 237-245 14.252 14.253 14.254 14.252 13.462 13.146 12.881 12.845

$P_{CV} = 13.044$ $L = .0269$ $P_{CB} = 12.606$ $P_{TC}/P_{CV} = 1.135$ $W_C = 1.68$ $T = 89.$ $B = 29.90$

Run 25-7 C1 I1 S1 B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $m/m^* = 610$ 0.662

Pt/Pto 131-144

.998 .996 .994 .991 .988 .986 .997 .994 .992 .989 .986 .978 .980

Cp 330-344

.081 .503 .720 .525 .326 .277 .470 .800 .877 .707 .554 .404 .795 .347 .620

Pt/Pto 101-130

.980 .969 .953 .959 1.000 1.000 1.000 .991 .364 .962
1.000 1.000 1.000 .997 .979 1.000 1.000 1.000 1.000 1.000
.934 .990 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.782 Ptc/Pto = .990 K = .0476

Cp 310-320

.913 .957 .335 .145 .030 .160 .141 .112 .106 .063 .050

Cp 321-329

.309 .908 .855 .689 .577 .307 .009 .121 .253

Ps 301-309 12.374 11.788 11.852 12.058 12.353 13.037 13.129 13.179 13.216

Ps 201-206 13.045 13.124 13.188 13.105 12.780 12.809

Ps 207-212 12.538 12.588 12.620 12.599 12.544 12.476

Ps 213-224 14.404 12.903 12.399 12.019 12.003 12.394 12.615 12.658 12.659 13.373 13.404 13.341

Ps 225-236 13.359 12.096 11.092 10.906 11.022 11.391 12.059 12.174 12.295 13.022 13.318 13.511

Ps 237-245 14.253 14.254 14.255 14.255 14.255 13.435 13.109 12.832 12.799

Pcw = 13.009 L = .0276 Pcb = 12.561 Ptc/Pcw = 1.136 Wc = 1.68 T = 90. B = 29.91

Run 25-8 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=-4^\circ$ $m/m^* = 6.28$ 0.660

| | | | | | | | | | | | | | |
|----------------|----------------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|--------|--------|-------|
| Pt/Pto 131-144 | .999 | .999 | .996 | .992 | .988 | .999 | .999 | .999 | .998 | .993 | .989 | .980 | .982 |
| Cp 330-344 | .252 | .214 | -.522 | -.448 | -.287 | .435 | -.187 | -.547 | -.715 | -.652 | -.555 | -.475 | -.382 |
| | | | | | | | | | | | | | -.669 |
| Pt/Pto 101-130 | .975 | .971 | .972 | .964 | 1.000 | 1.000 | 1.000 | .998 | .982 | .964 | | | |
| | 1.000 | 1.000 | 1.000 | .999 | .994 | .970 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| | 1.000 | .985 | 1.000 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | 1.000 | | | |
| Ptc = 14.810 | Ptc/Ptc = .992 | K = .0360 | | | | | | | | | | | |
| Cp 310-320 | .827 | -.954 | .634 | .407 | .264 | .003 | -.137 | -.140 | -.144 | -.128 | -.100 | | |
| Cp 321-329 | .704 | .989 | .805 | .589 | .476 | .239 | .052 | -.004 | -.092 | | | | |
| Is 301-309 | 12.329 | 11.626 | 12.097 | 12.492 | 12.783 | 13.066 | 13.152 | 13.195 | 13.236 | | | | |
| Ps 201-206 | 13.076 | 13.157 | 13.211 | 13.124 | 12.812 | 12.837 | | | | | | | |
| Ps 207-212 | 12.573 | 12.623 | 12.658 | 12.637 | 12.576 | 12.511 | | | | | | | |
| Is 213-224 | 13.927 | 12.324 | 11.919 | 11.704 | 11.794 | 12.415 | 12.561 | 12.631 | 12.654 | 13.397 | 13.418 | 13.363 | |
| Ps 225-236 | 13.743 | 12.460 | 11.330 | 11.049 | 11.112 | 11.355 | 12.068 | 12.194 | 12.316 | 13.035 | 13.346 | 13.544 | |
| Ps 237-245 | 14.254 | 14.255 | 14.256 | 14.257 | 14.255 | 13.462 | 13.133 | 12.867 | 12.832 | | | | |
| Pev = 13.036 | L = .0270 | Peb = 12.597 | Ptc/Pev = 1.136 | Wc = 1.68 | T = 91. | B = 29.90 | | | | | | | |

Run 25-9 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=-10^\circ$ m/m² = ~~6.20~~ 0.660

Pt/Pto 131-144
 .999 .998 .999 .997 .992 .988 .999 .999 .999 .998 .994 .989 .973 .981
 Cp 330-344
 .335 -.151 -.496 .475 -.341 .372 -.230 -.572 -.7.3 -.674 -.581 -.526 -.945 -.428 -.763

Pt/Pto 101-130
 .972 .938 .976 .975 1.000 1.000 1.000 .951 .983 .971
 1.000 1.000 1.000 .951 .982 .972 1.000 1.000 .971
 .983 .986 1.000 1.000 1.000 .997 .999 .999 1.000 1.000

Ptc = 14.739 Ptc/Pto = .988 K = .0627

Cp 310-320
 .644 .924 .547 .341 .208 -.051 -.210 -.221 -.224 -.198 -.181

Cp 321-323
 .149 .929 .950 .789 .675 .417 .165 .063 -.052

Ps 301-309 11.909 11.077 11.808 12.301 12.650 12.924 12.991 13.014 13.086

Ps 201-206 12.951 13.043 13.106 13.008 12.673 12.695

Ps 207-212 12.414 12.475 12.519 12.481 12.419 12.350

Ps 213-224 13.786 12.106 11.687 11.460 11.559 12.259 12.392 12.471 12.496 13.248 13.274 13.235

Ps 225-236 13.083 11.762 10.825 10.797 11.054 11.502 11.784 11.952 12.085 12.753 13.115 13.342

Ps 237-245 14.229 14.228 14.230 14.231 14.229 13.321 12.983 12.685 12.664

Pev = 12.913 L = .0293 Pev = 12.443 Ptc/Pev = 1.141 Wc = 1.70 T = 88. B = 29.90

| | | | | | | | | | | | | | |
|-----|-------|----|----|----|----|-----|---|------------------|-----------------|------|------------------|-------|-------|
| Run | 25-10 | C1 | I1 | S1 | B1 | Eng | 2 | $\alpha=0^\circ$ | $\beta=4^\circ$ | m/m* | = 610 | 0.663 | 0.659 |
|-----|-------|----|----|----|----|-----|---|------------------|-----------------|------|------------------|-------|-------|

Pt/Pto 131-144

| | | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|------|
| 1.000 | .999 | .992 | .989 | .999 | .999 | .997 | .993 | .988 | .980 | .982 |
|-------|------|------|------|------|------|------|------|------|------|------|

Cp 330-344

| | | | | | | | | | | | | | | | |
|------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.040 | 0.040 | 0.387 | 0.628 | 0.499 | 0.319 | 0.439 | 0.184 | 0.546 | 0.719 | 0.654 | 0.558 | 0.470 | 0.855 | 0.393 | 0.649 |
|------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

Pt/Pto 101-130

[illegible]

$P_{TC} = 14.838$ $P_{TC}/P_{TO} = .994$ $K = .0438$

Cp 310-320

| | | | | | | | | | |
|------|------|------|------|-------|-------|-------|-------|-------|-------|
| .932 | .665 | .409 | .260 | -.002 | -.126 | -.121 | -.145 | -.128 | -.102 |
|------|------|------|------|-------|-------|-------|-------|-------|-------|

Cp 321-329

| | | | | | | | | |
|------|------|------|------|------|-------|-------|-------|-------|
| .976 | .866 | .429 | .207 | .125 | -.045 | -.120 | -.113 | -.158 |
|------|------|------|------|------|-------|-------|-------|-------|

Ps 301-309 12.788 12.051 12.530 12.849 13.038 13.135 13.205 13.262 13.296

P₃ 201-206 13.125 13.200 13.280 13.176 12.872 12.898

Ps 207-212 12.637 12.687 12.722 12.701 12.645 12.576

| | | | | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|
| Ps 213-224 | 14.044 | 12.541 | 12.159 | 11.957 | 12.034 | 12.547 | 12.707 | 12.757 | 12.763 | 13.447 | 13.450 | 13.411 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|

| | | | | | | | | | | | | | |
|-----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| P ₂₅ | 225-236 | 14.408 | 13.353 | 12.200 | 11.793 | 11.618 | 11.864 | 12.387 | 12.411 | 12.468 | 13.113 | 13.458 | 13.697 |
|-----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ps 237-245 | 14.262 | 14.262 | 14.263 | 14.264 | 14.264 | 13.494 | 13.191 | 12.934 | 12.897 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

$P_{CW} = 13.092$ $L = .0275$ $P_{Cb} = 12.661$ $P_{C/C} = 1.133$ $W_C = 1.68$ $T = 83.$ $B = 29.90$

Run 25-12 C1 I1 S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ $m/m^* = 6.50$ 0.663 0.656

Pt/Pto 131-144

.999 1.000 .999 .995 .991 .988 .998 .998 .997 .995 .990 .984 .979 .981

Cp 330-344

-.129 -.575 -.759 -.571 -.363 .347 -.283 -.641 -.799 -.711 -.605 -.510 -.919 -.432 -.671

Pt/Pto 101-130

.980 .989 .989 .352 .996 .999 1.000 1.000 1.000 .964
1.000 1.000 1.000 1.000 1.000 .978 1.000 1.000 1.000 1.000
1.000 .998 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.849 Ptc/Pto = .995 K = .0477

Cp 310-320

.967 .770 .551 .300 .152 -.096 -.174 -.158 -.193 -.161 -.134

Cp 321-329

.958 .599 .184 .005 -.047 -.155 -.175 -.147 -.148

Ps 301-309 13.097 12.249 12.783 13.039 13.153 13.159 13.216 13.286 13.315

Ps 201-206 13.139 13.214 13.300 13.193 12.900 12.919

Ps 207-212 12.660 12.710 12.741 12.721 12.670 12.602

Ps 213-224 14.204 12.775 12.384 12.154 12.201 12.612 12.796 12.828 12.820 13.467 ~~13.493~~ 13.428

Ps 225-236 14.652 13.797 12.674 12.222 11.946 12.178 12.515 12.541 12.572 13.146 13.486 13.733

Ps 237-245 14.245 14.245 14.245 14.247 14.245 13.511 13.208 12.957 12.920

Pev = 13.111 L = .0269 Pev = 12.684 Ptc/Pev = 1.133 We = 1.69 T = 78. B = 29.91

Run 25-13 C1 I1 S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=4^\circ$ $m/m^*=610$ 0.662

Pt/Pto 131-144

1.000 .999 .998 .995 .991 .988 .999 .999 .998 .995 .991 .987 .980 .981

Cp 330-344

-.661 -.421 -.658 -.508 -.308 .397 -.258 -.625 -.783 -.695 -.583 -.476 -.852 -.394 -.634

Pt/Pto 101-130

.979 .984 .981 .955 1.000 1.000 1.000 1.000 1.000 .963
1.000 1.000 1.000 1.000 1.000 .974 1.000 1.000 1.000 1.000
1.000 .991 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.843 Ptc/Pto = .994 K = .0458

Cp 310-320

.981 .753 .596 .343 .198 -.051 -.140 -.127 -.139 -.113 -.079

Cp 321-329

.999 .872 .534 .302 .213 .028 -.074 -.084 -.136

Ps 301-309 12.836 12.032 12.431 12.758 12.981 13.141 13.209 13.269 13.296

Ps 201-206 13.126 13.205 13.285 13.179 12.879 12.902

Ps 207-212 12.643 12.692 12.725 12.705 12.650 12.582

Ps 213-224 14.164 12.661 12.256 12.013 12.068 12.549 12.716 12.763 12.767 13.452 13.484 13.415

Ps 225-236 14.328 13.237 12.091 11.704 11.558 11.810 12.364 12.393 12.457 13.115 13.461 13.697

Ps 237-245 14.264 14.264 14.264 14.266 14.264 13.498 13.195 12.936 12.902

Pev = 13.096 L = .0273 Peb = 12.666 Ptc/Pev = 1.133 Wc = 1.69 T = 77. B = 29.91

Run 25-14 C1 I1 S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=-4^\circ$ $m/m^*=610$ 0.662

Pt/Pto 131-144

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| .999 | .999 | .968 | .995 | .991 | .988 | .999 | .999 | .966 | .992 | .988 | .979 | .981 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|

CP 330-344

| | | | | | | | | | | | | | | |
|--|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | .283 | -.588 | -.491 | -.316 | .388 | -.270 | -.629 | -.784 | -.696 | -.586 | -.482 | -.856 | -.400 | -.677 |
|--|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

Pt/Pto 101-130

| | .975 | .966 | .973 | .963 | 1.000 | 1.000 | .991 | .982 | .963 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.000 | 1.000 | 1.000 | 1.000 | .997 | .992 | .968 | 1.000 | 1.000 | 1.000 |
| .999 | .999 | .982 | 1.000 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 |

| | | | | | |
|-------|-------|------|------|-------|-------|
| 1.000 | 1.000 | .997 | .968 | 1.000 | 1.000 |
| 1.000 | 1.000 | .997 | .968 | 1.000 | 1.000 |

| | | | | | | | |
|------|------|-------|-------|-------|-------|-------|-------|
| .999 | .982 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| .999 | .982 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

$P_{TC} = 14.803$ $P_{TC}/P_{TO} = .992$ $K = .0370$

Cp 310-320

| | | | | | | | | | | |
|------|-----------------|------|------|------|-------|-------|-------|-------|-------|-------|
| .853 | .699 | .554 | .327 | .188 | -.068 | -.172 | -.170 | -.171 | -.139 | -.107 |
|------|-----------------|------|------|------|-------|-------|-------|-------|-------|-------|

Cp 321-329

| | | | | | | | | |
|------|------|------|------|------|------|------|-------|-------|
| .598 | .981 | .840 | .639 | .523 | .277 | .060 | -.015 | -.113 |
|------|------|------|------|------|------|------|-------|-------|

Ps 301-309 12.187 11.529 12.010 12.426 12.729 13.051 13.140 13.181 13.221

Pa 201-206 13.060 13.146 13.202 13.115 12.803 12.825

| | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|
| Pa | 207-212 | 12.558 | 12.609 | 12.644 | 12.623 | 12.564 | 12.494 |
|----|---------|--------|--------|--------|--------|--------|--------|

Ps 213-224 14.046 12.446 12.012 11.754 11.825 12.417 12.561 12.625 12.645 13.387 ~~13.417~~ 13.352

| | | | | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ps 225-236 | 13.620 | 12.329 | 11.234 | 10.991 | 11.093 | 11.397 | 12.014 | 12.168 | 12.305 | 13.004 | 13.322 | 13.528 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Ps 237-245 14.262 14.262 14.263 14.264 14.262 13.450 13.125 12.849 12.817

$P_{cw} = 13.025$ $L = .0270$ $P_{cb} = 12.582$ $P_{tc}/P_{cw} = 1.136$ $W_c = 1.70$ $T = 75.$ $B = 29.91$

Run 25-15 C1 I1 S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=-10^\circ$ $m/m^*=610$ 0.661

Pt/Pto 131-144

.999 .998 .995 .991 .988 .999 .999 .999 .997 .993 .988 .978 .980

Cp 330-344

.999 .998 .995 .991 .988 .999 .999 .999 .997 .993 .988 .978 .980

Pt/Pto 101-130

.972 .936 .975 .979 1.000 1.000 .947 .982 .972
1.000 1.000 1.000 .981 .968 1.000 1.000 .972
.986 .980 1.000 1.000 .994 .998 .998 1.000 1.000

Ptc = 14.727 Ptc/Pto = .986 K = .0650

Cp 310-320

.671 .680 .443 .256 .122 -.126 -.255 -.269 -.288 -.221 -.199

Cp 321-329

-.013 .868 .938 .807 .694 .429 .149 .027 -.101

Ps 301-309 11.747 11.062 11.793 12.275 12.630 12.920 12.986 13.009 13.083

Ps 201-206 12.947 13.042 13.103 13.010 12.679 12.697

Ps 207-212 12.416 12.479 12.529 12.484 12.421 12.352

Ps 213-224 13.928 12.263 11.817 11.548 11.622 12.271 12.414 12.482 12.503 13.246 13.274 13.233

Ps 225-236 12.954 11.647 10.766 10.774 11.048 11.499 11.770 11.935 12.065 12.744 13.113 13.340

Ps 237-245 14.239 14.239 14.239 14.241 14.239 13.338 12.979 12.681 12.664

Pcw = 12.914 L = .0293 Pcb = 12.447 Ptc/Pcw = 1.140 Wc = 1.71 T = 75. B = 29.91

Run 25-16 C1 I1 S1 B1 Eng 2 $\alpha = -4^\circ$ $\beta = -10^\circ$ $m/m^* = 610$ 0.661

| | | | | | | | | | | | |
|----------------|----------------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|--------|
| Pt/Pto 131-144 | .999 | .998 | .993 | .989 | .999 | .999 | .999 | .995 | .991 | .979 | .981 |
| Cp 330-344 | .999 | .998 | .993 | .989 | .999 | .999 | .999 | .995 | .991 | .979 | .981 |
| 387 | -.056 | -.402 | -.402 | -.283 | .417 | -.137 | -.477 | -.655 | -.615 | -.540 | -.397 |
| | | | | | | | | | | | -.741 |
| Pt/Pto 101-130 | | | | | | | | | | | |
| .972 | .943 | .979 | .972 | 1.000 | 1.000 | 1.000 | .957 | .985 | .972 | | |
| 1.000 | 1.000 | 1.000 | .969 | .984 | .977 | 1.000 | 1.000 | 1.000 | .986 | | |
| .992 | .990 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | 1.000 | 1.000 | | |
| Ptc = 14.767 | Ptc/Pto = .989 | K = .0576 | | | | | | | | | |
| Cp 310-320 | | | | | | | | | | | |
| .585 | .647 | .435 | .300 | .033 | -.152 | -.168 | -.169 | -.172 | -.152 | | |
| Cp 321-329 | | | | | | | | | | | |
| .304 | .972 | .941 | .755 | .640 | .391 | .164 | .084 | -.017 | | | |
| Ps 301-309 | 12.116 | 11.189 | 11.893 | 12.379 | 12.715 | 12.983 | 13.058 | 13.078 | 13.142 | | |
| Ps 201-206 | 13.003 | 13.097 | 13.153 | 13.052 | 12.736 | 12.758 | | | | | |
| Ps 207-212 | 12.482 | 12.539 | 12.581 | 12.546 | 12.487 | 12.420 | | | | | |
| Ps 213-224 | 13.652 | 11.992 | 11.614 | 11.441 | 11.562 | 12.307 | 12.435 | 12.518 | 12.551 | 13.306 | 13.285 |
| Ps 225-236 | 13.236 | 11.925 | 10.920 | 10.830 | 11.070 | 11.518 | 11.862 | 12.053 | 12.192 | 12.840 | 13.180 |
| Ps 237-245 | 14.252 | 14.252 | 14.252 | 14.253 | 14.252 | 13.394 | 13.046 | 12.754 | 12.732 | | |
| Pcv = 12.968 | L = .0282 | Feb = 12.509 | Ptc/Pcv = 1.139 | Wc = 1.71 | T = 74. | B = 29.91 | | | | | |

Run 25-17 CL IL S1 B1 Eng 2 $\alpha = -4^\circ$ $\beta = -4^\circ$ $m/m^* = 610$ 0.662 0.658

| | | | | | | | | | | | | | |
|----------------|----------------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|--------|--------|-------|
| Pt/Pto 131-144 | .999 | .999 | .998 | .993 | .989 | .999 | .999 | 1.000 | .999 | .995 | .990 | .981 | .982 |
| Cp 330-344 | .270 | -.145 | -.451 | -.403 | -.258 | .477 | -.099 | -.453 | -.638 | -.597 | -.517 | -.461 | -.859 |
| | | | | | | | | | | | | | -.365 |
| | | | | | | | | | | | | | -.664 |
| Pt/Pto 101-130 | .974 | .975 | .970 | .964 | 1.000 | 1.000 | 1.000 | 1.000 | .980 | .966 | | | |
| | 1.000 | 1.000 | 1.000 | 1.000 | .995 | .973 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| | .999 | .989 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| Ptc = 14.819 | Ptc/Pto = .993 | K = .0366 | | | | | | | | | | | |
| Cp 310-320 | .753 | .648 | .696 | .488 | .348 | .075 | -.094 | -.106 | -.116 | -.113 | -.092 | | |
| Cp 321-329 | .762 | .968 | .736 | .520 | .408 | .185 | .022 | -.013 | -.082 | | | | |
| Ps 301-309 | 12.467 | 11.738 | 12.213 | 12.589 | 12.857 | 13.096 | 13.177 | 13.221 | 13.262 | | | | |
| Ps 201-206 | 13.102 | 13.186 | 13.239 | 13.153 | 12.847 | 12.870 | | | | | | | |
| Ps 207-212 | 12.609 | 12.659 | 12.691 | 12.670 | 12.613 | 12.546 | | | | | | | |
| Ps 213-224 | 13.796 | 12.203 | 11.836 | 11.670 | 11.783 | 12.450 | 12.582 | 12.656 | 12.683 | 13.425 | 13.431 | 13.388 | |
| Ps 225-236 | 13.864 | 12.602 | 11.449 | 11.139 | 11.154 | 11.406 | 12.145 | 12.237 | 12.347 | 13.081 | 13.389 | 13.578 | |
| Ps 237-245 | 14.275 | 14.277 | 14.275 | 14.277 | 14.275 | 13.485 | 13.167 | 12.899 | 12.865 | | | | |
| Pcw = 13.066 | L = .0264 | Feb = 12.632 | Ptc/Pcw = 1.134 | Wc = 1.70 | T = 74. | B = 29.91 | | | | | | | |

Run 25-18 C1 I1 S1 B1 Eng 2 $\alpha = -4^\circ$ $\beta = 4^\circ$ $m/m^* = .620$ 0.664 0.659

Pt/Pto 131-144

1.000 1.000 1.000 .998 .993 .990 .999 .999 .999 .998 .994 .989 .981 .982

Cp 330-344

~~.632~~ -.346 -.584 -.483 -.324 .485 -.087 -.448 -.637 -.598 -.516 -.458 -.857 -.384 -.656

Pt/Pto 101-130

.977 .985 .979 .958 .999 1.000 1.000 1.000 1.000 1.000 .967
1.000 1.000 1.000 1.000 .976 1.000 1.000 1.000 1.000
1.000 .995 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.845 Ptc/Pto = .994 K = .0418

Cp 310-320

.836 ~~.656~~ .704 .483 .334 .059 -.099 -.105 -.141 -.132 -.118

Cp 321-329

.928 .709 .319 .104 .029 -.119 -.181 -.155 -.178

Ps 301-309 12.903 12.107 12.651 12.947 13.096 13.146 13.216 13.272 13.303

Ps 201-206 13.134 13.214 13.292 13.190 12.886 12.909

Ps 207-212 12.650 12.700 12.733 12.712 12.657 12.590

Ps 213-224 13.910 12.411 12.060 11.904 12.002 12.569 12.709 12.763 12.771 13.459 ~~13.478~~ 13.421

Ps 225-236 14.484 13.473 12.311 11.883 11.684 11.927 12.416 12.440 12.492 13.127 13.470 13.711

Ps 237-245 14.276 14.276 14.276 14.277 14.274 13.503 13.203 12.945 12.910

Pcv = 13.104 L = .0273 Pcb = 12.674 Ptc/Pcv = 1.133 Wc = 1.69 T = 74. B = 29.91

Run 25-19 C1 I1 S1 B1 Eng 2 $\alpha = -4^\circ$ $\beta = 10^\circ$ $m/m^* = .620$ 0.663 0.658

Pt/Pto 131-144

.999 1.000 1.000 .998 .993 .990 .998 .998 .998 .997 .993 .987 .979 .981

Cp 330-344

~~.999~~ -.553 -.736 -.599 -.441 .439 -.113 -.469 -.655 -.620 -.544 -.501 -.943 -.446 -.719

Pt/Pto 101-130

.978 .989 .988 .960 .997 1.000 1.000 1.000 1.000 .976
1.000 1.000 1.000 1.000 .991 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.866 Ptc/Pto = .996 K = .0406

Cp 310-320

.816 ~~.649~~ .675 .428 .271 -.003 -.162 -.166 -.231 -.217 -.215

Cp 321-329

.776 .368 -.079 -.246 -.277 -.352 -.332 -.270 -.252

Ps 301-309 13.835 12.379 12.974 13.168 13.228 13.175 13.228 13.287 13.321

Ps 201-206 13.147 13.221 13.305 13.205 12.907 12.928

Pt 207-212 12.669 12.719 12.752 12.732 12.678 12.610

Ps 213-224 13.934 12.499 12.167 12.027 12.117 12.632 12.778 12.819 12.819 13.475 ~~13.498~~ 13.434

Ps 225-236 14.730 13.967 12.853 12.371 12.051 12.272 12.553 12.574 12.600 13.159 13.494 13.746

Ps 237-245 14.258 14.258 14.258 14.259 14.258 13.513 13.216 12.965 12.929

Pcv = 13.119 L = .0268 Pcb = 12.693 Ptc/Pcv = 1.133 Wc = 1.70 T = 74. B = 29.91

Run 23-2 C1 I1 S1 H1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $\eta/\eta^*=.577$ 0.735, 0.730

Pt/Pto 131-144

[illegible]

CP 330-344

| | | | | | | | | | | | | | | | |
|--|--------|--------|--------|--------|--------|------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| | -0.793 | -0.299 | -0.577 | -0.478 | -0.315 | .447 | -.186 | -.553 | -.730 | -.669 | -.581 | -.524 | -1.001 | -.428 | -.771 |
|--|--------|--------|--------|--------|--------|------|-------|-------|-------|-------|-------|-------|--------|-------|-------|

Pt/Pto 101-130

[illegible]

$P_{TC} = 14.843$ $P_{TC}/P_{TO} = .992$ $K = .0481$

CP 310-320

| | | | | | | | | | |
|------|------|------|------|------|-------|------|-------|-------|-------|
| .798 | .709 | .488 | .336 | .056 | -.106 | -.12 | -.123 | -.112 | -.083 |
|------|------|------|------|------|-------|------|-------|-------|-------|

CP 321-329

| | | | | | | | | |
|------|------|------|------|------|------|-------|-------|-------|
| .794 | .953 | .700 | .472 | .358 | .139 | -.015 | -.045 | -.115 |
|------|------|------|------|------|------|-------|-------|-------|

P# 301-309 12.273 11.431 11.852 12.272 12.579 12.867 12.960 13.023 13.065

Pa 201-206 12.869 12.956 13.026 12.926 12.576 12.603

Pa 207-212 12.292 12.353 12.390 12.364 12.296 12.219

| | | | | | | | | | | | | | |
|---|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|
| P | 213-224 | 13.769 | 12.004 | 11.573 | 11.336 | 11.435 | 12.144 | 12.306 | 12.380 | 12.401 | 13.243 | 13.163 | 13.203 |
|---|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|

| | | | | | | | | | | | | | |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| P ₈ | 225-236 | 13.918 | 12.576 | 11.243 | 10.823 | 10.742 | 11.025 | 11.857 | 11.920 | 12.021 | 12.853 | 13.239 | 13.469 |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| P ₂ | 237-245 | 14.219 | 14.219 | 14.222 | 14.222 | 14.220 | 13.312 | 12.951 | 12.646 | 12.607 |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Pev = 12.826 L = .0303 Peb = 12.319 Ptc/Pev = 1.157 Wc = 1.77 T = 95. B = 29.99

| | | | | | | | | | | | | | |
|----------------|-----------------|------------------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|
| Pt/Pto 131-144 | 1.000 | .999 | 1.000 | .998 | .993 | .990 | .999 | .999 | .999 | .994 | .990 | .980 | .982 |
| Cp 330-344 | .972 | -.239 | -.518 | -.448 | -.308 | .491 | -.094 | -.455 | -.650 | -.536 | -.508 | -.999 | -.410 |
| | | | | | | | | | | | | | -.768 |
| Pt/Pto 101-130 | .972 | .975 | .965 | .954 | 1.000 | 1.000 | 1.000 | .989 | .959 | | | | |
| | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .969 | 1.000 | 1.000 | 1.000 | | | | |
| | 1.000 | .989 | 1.000 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | | | | |
| Ptc = 14.851 | Ptc/Pto = | .992 | K = | .0464 | | | | | | | | | |
| Cp 310-320 | .697 | .178 | .794 | .560 | .406 | .119 | -.070 | -.085 | -.110 | -.104 | -.089 | | |
| Cp 321-329 | .869 | .958 | .644 | .390 | .280 | .073 | -.054 | -.067 | -.120 | | | | |
| Ps 301-309 | 12.431 | 11.519 | 11.981 | 12.383 | 12.670 | 12.907 | 12.996 | 13.065 | 13.101 | | | | |
| Ps 201-206 | 12.903 | 12.993 | 13.066 | 12.967 | 12.620 | 12.646 | | | | | | | |
| Ps 207-212 | 12.344 | 12.404 | 12.441 | 12.415 | 12.347 | 12.273 | | | | | | | |
| Ps 213-224 | 13.632 | 11.889 | 11.497 | 11.312 | 11.436 | 12.181 | 12.335 | 12.416 | 12.441 | 13.276 | 13.287 | 13.238 | |
| Ps 225-236 | 14.032 | 12.721 | 11.394 | 10.960 | 10.852 | 11.128 | 11.926 | 11.981 | 12.077 | 12.891 | 13.280 | 13.515 | |
| Ps 237-245 | 14.222 | 14.225 | 14.226 | 14.227 | 14.226 | 13.348 | 12.989 | 12.691 | 12.653 | | | | |
| Pcv = 12.866 | L = | .0300 | Peb = | 12.371 | Ptc/Pcv = | 1.154 | Wc = | 1.76 | T = | 95. | B = | 29.99 | |

Run 23-4 C1 I1 S1 B1 Eng 2 $\alpha = -10^\circ$ $\beta = 0^\circ$ m/m* = ~~577~~ 0.731

| | | | | | | | | | | | | | | |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|-----------------|-----------------|-----------------|
| Pt/Pto 131-144 | .999 | .999 | 1.000 | .999 | .995 | .991 | .999 | .999 | 1.000 | 1.000 | .996 | .992 | .981 | .982 |
| Cp 330-344 | .999 | .999 | .999 | .999 | .995 | .991 | .999 | .999 | .999 | .999 | .996 | .992 | .981 | .982 |
| | .999 | .999 | .999 | .999 | .995 | .991 | .999 | .999 | .999 | .999 | .996 | .992 | .981 | .982 |
| | .999 | .999 | .999 | .999 | .995 | .991 | .999 | .999 | .999 | .999 | .996 | .992 | .981 | .982 |
| | .999 | .999 | .999 | .999 | .995 | .991 | .999 | .999 | .999 | .999 | .996 | .992 | .981 | .982 |
| Pt/Pto 101-130 | .971 | .975 | .967 | .956 | 1.000 | 1.000 | 1.000 | 1.000 | .994 | .963 | | | | |
| | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .975 | 1.000 | 1.000 | 1.000 | 1.000 | | | | |
| | 1.000 | .994 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | | |
| Ptc = 14.862 | Ptc/Pto = .523 | K = .0444 | | | | | | | | | | | | |
| Cp 310-320 | .520 | .520 | .873 | .672 | .524 | .232 | -.006 | -.031 | -.071 | -.081 | -.082 | | | |
| Cp 321-329 | .886 | .851 | .494 | .250 | .148 | -.040 | -.148 | -.138 | -.156 | | | | | |
| Ps 301-309 | 12.618 | 11.604 | 12.144 | 12.544 | 12.797 | 12.936 | 13.028 | 13.090 | 13.128 | | | | | |
| Ps 201-206 | 12.938 | 13.021 | 13.095 | 12.995 | 12.651 | 12.677 | | | | | | | | |
| Ps 207-212 | 12.380 | 12.438 | 12.476 | 12.449 | 12.384 | 12.307 | | | | | | | | |
| Ps 213-224 | 13.372 | 11.667 | 11.342 | 11.244 | 11.401 | 12.207 | 12.355 | 12.441 | 12.469 | 13.299 | 13.328 | 13.258 | | |
| Ps 225-236 | 14.171 | 12.915 | 11.585 | 11.128 | 10.980 | 11.250 | 11.998 | 12.041 | 12.129 | 12.918 | 13.308 | 13.554 | | |
| Ps 237-245 | 14.239 | 14.235 | 14.240 | 14.241 | 14.240 | 13.370 | 13.016 | 12.720 | 12.682 | | | | | |
| Pev = 12.896 | L = .0299 | Feb = 12.406 | Ptc/Fev = 1.152 | Wc = 1.75 | T = 96. | B = 29.99 | | | | | | | | |

Run 23-5 C1 11 S1 B1 Eng 2 $\alpha = -20^\circ$ $\beta = 0^\circ$ $m/m = .000$ 0.733

Pt/Pto 131-144

1.000 .999 1.000 1.000 .998 .994 1.000 1.000 1.000 1.000 .999 .994 .961 .982

Cp 330-344

~~117~~ -.020 -.250 -.227 -.221 .701 .311 .006 -.212 -.260 -.251 -.953 -.261 -.698

Pt/Pto 101-130

.968 .976 .963 .999 1.000 1.000 1.000 1.000 .998 .972
1.000 1.000 1.000 1.000 1.000 .984 1.000 1.000 1.000 1.000
1.000 .998 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.873 Ptc/Pto = .994 K = .0415

Cp 310-320

-.053 1.156 .023 .852 .729 .454 .149 .103 .032 .003 -.029

Cp 321-329

.617 .697 .296 .032 -.060 -.236 -.331 -.388 -.273

Ps 301-309 12.963 11.654 12.327 12.722 12.900 12.934 13.019 13.004 13.128

Ps 201-206 12.931 13.015 13.099 12.989 12.640 12.666

Ps 207-212 12.369 12.427 12.465 12.441 12.372 12.290

Ps 213-224 12.777 11.156 10.903 11.015 11.215 12.173 12.314 12.423 12.452 13.297 ~~13.323~~ 13.250

Ps 225-236 14.281 13.092 11.753 11.258 11.063 11.326 12.020 12.057 12.136 12.914 13.309 13.568

Ps 237-245 14.251 14.252 14.253 14.254 14.253 13.365 13.009 12.713 12.682

new = 12.890 L = .0309 Pcb = 12.395 Ptc/Pew = 1.154 We = 1.76 T = 91. B = 29.99

Run 23-6 C1 IL 31 BL Eng 2 2-4° ~~17~~ $\beta=0^\circ$ m/m' = 0.730

| | | | | | | | | | |
|---|------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Fr/Fto 131-144 | | | | | | | | | |
| .999 | .999 | .998 | .995 | .991 | .967 | .999 | .999 | .998 | .995 |
| | | | | | | | | .991 | .978 |
| Cp 330-344 | | | | | | | | | |
| 1.000 | .946 | -.627 | -.593 | -.324 | .404 | -.264 | -.632 | -.795 | -.710 |
| | | | | | | | | -.604 | -.523 |
| | | | | | | | | -.991 | -.434 |
| Pt/Fto 101-130 | | | | | | | | | |
| .973 | .975 | .964 | .954 | 1.000 | 1.000 | 1.000 | 1.000 | .983 | .956 |
| 1.000 | 1.000 | 1.000 | 1.000 | .999 | .964 | 1.000 | 1.000 | 1.000 | 1.000 |
| 1.000 | .981 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 |
| Ftc = 14.839 ftc/fto = .991 K = .0485 | | | | | | | | | |
| Cp 310-320 | | | | | | | | | |
| .854 | 1.134 | .653 | .416 | .266 | -.004 | -.129 | -.126 | -.132 | -.109 |
| | | | | | | | | | -.075 |
| Cp 321-329 | | | | | | | | | |
| .733 | .959 | .764 | .541 | .446 | .193 | .015 | -.035 | -.116 | |
| Fs 301-309 | | | | | | | | | |
| 12.167 | 11.392 | 11.771 | 12.195 | 12.522 | 12.869 | 12.965 | 13.028 | 13.038 | |
| Fs 201-206 | | | | | | | | | |
| 12.875 | 12.963 | 13.035 | 12.933 | 12.587 | 12.611 | | | | |
| Fs 207-212 | | | | | | | | | |
| 12.303 | 12.361 | 12.400 | 12.375 | 12.307 | 12.231 | | | | |
| Fs 213-224 | | | | | | | | | |
| 13.908 | 12.145 | 11.682 | 11.400 | 11.475 | 12.149 | 12.314 | 12.387 | 12.407 | 13.250 |
| Fs 225-236 | | | | | | | | | |
| 13.806 | 12.438 | 11.133 | 10.740 | 10.697 | 10.780 | 11.632 | 11.908 | 12.021 | 12.858 |
| Fs 237-245 | | | | | | | | | |
| 14.217 | 14.215 | 14.217 | 14.219 | 14.217 | 13.320 | 12.955 | 12.653 | 12.612 | |

Pcw = 12.634 L = .0302 Feb = 12.329 ftc/Pcw = 1.155 Mc = 1.78 T = 87. B = 29.99

Ram 23-7 C1 11 S1 B1 Eng 2.1=10° 6-0' m/m°=.647 0.732

Pt/Pto 131-144

.993 .998 .995 .992 .989 .986 .993 .996 .995 .992 .989 .985 .977 .980

Cp 330-344

~~.991~~ -.415 -.519 -.518 -.334 .341 -.355 -.729 -.852 -.740 -.613 -.512 -.964 -.428 -.742

Pt/Pto 101-130

.974 .973 .963 .954 1.000 1.000 1.000 .998 .981 .956
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
1.000 .977 1.000 1.000 1.000 1.000 1.000 .999 1.000 1.000

Ftc = 14.831 Ftc/Pto = .991 K = .0433

Cp 310-320

.906 ~~.906~~ .545 .321 .179 -.070 -.147 -.135 -.134 -.093 -.060

Cp 321-329

.585 .990 .840 .629 .512 .261 .036 -.049 -.164

Fs 301-309 11.989 11.261 1 .653 12.008 12.412 12.856 12.962 13.020 13.061

Ps 201-206 12.868 12.954 13.027 12.927 12.976 12.603

Ps 207-212 12.295 12.352 12.391 12.366 12.301 12.223

Fs 213-224 14.077 12.328 11.843 12.479 11.521 12.139 12.316 12.384 12.400 13.239 ~~13.277~~ 13.201

Ps 225-236 12.592 12.202 10.943 10.607 10.635 10.954 11.764 11.878 12.506 12.838 13.202 13.421

Ps 237-245 14.213 14.214 14.214 14.215 14.214 13.314 12.946 12.642 12.603

Pcv = 12.826 L = .0303 Pcb = 12.321 Ptc/Pcv = 1.156 Wc = 1.78 T = 85. B = 29.99

Run 23-8 C1 II S1 B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ m/m' = ~~577~~ 0.730

Pt/Pto 131-144

.996 .994 .991 .988 .986 .998 .997 .994 .992 .989 .985 .977 .980

Cp 330-344

~~-.674~~ -.506 -.729 -.539 -.352 .277 -.476 -.806 -.839 -.723 -.573 -.457 -.391 -.728

Pt/Pto 101-130

.976 .954 .949 .955 1.000 1.000 1.000 .977 .960 .957
1.000 1.000 .983 .977 .966 1.000 1.000 1.000 .998
.994 .987 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.788 Ptc/Pto = .988 K = .0519

Cp 310-320

.907 ~~1.000~~ .436 .216 .092 -.115 -.128 -.108 -.095 -.059 -.048

Cp 321-329

.159 .876 .890 .721 .605 .329 .024 -.116 -.248

Ps 301-309 11.979 11.279 11.365 11.627 11.983 12.801 12.903 12.961 12.999

Ps 201-206 12.803 12.897 12.973 12.875 12.511 12.535

Fs 207-212 12.217 12.271 12.319 12.286 12.222 12.146

Ps 213-224 14.251 12.531 11.978 11.551 11.541 12.008 1.286 12.342 12.349 13.179 ~~13.286~~ 13.143

Ps 225-236 13.138 11.753 10.625 10.420 10.557 11.034 11.630 11.807 11.957 12.740 13.094 13.324

Ps 237-245 14.208 14.208 14.209 14.211 14.209 13.262 12.879 12.561 12.527

Pev = 12.766 L = .0312 Peb = 12.244 Ptc/Pev = 1.158 Wc = 1.78 T = 83. B = 29.99

Run 23-3 C1 I1 S1 B1 Eng $\alpha=0^\circ$ $\beta=-4^\circ$ $m/m^2 = .677$ 0.730

| | | | | | | | | | | | | | | |
|----------------|-----------|--------|--------|--------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Pt/Pto 131-144 | .999 | .999 | .996 | .992 | .988 | .999 | .999 | .999 | .999 | .998 | .993 | .989 | .979 | .981 |
| Cp 330-344 | .248 | -.218 | -.529 | -.454 | -.312 | .431 | -.192 | -.552 | -.730 | -.668 | -.575 | -.538 | -1.001 | -.426 |
| | | | | | | | | | | | | | | -.780 |
| Pt/Pto 101-130 | .971 | .961 | .971 | .961 | 1.000 | 1.000 | 1.000 | .990 | .978 | .960 | | | | |
| | 1.000 | 1.000 | 1.000 | .998 | .990 | .962 | 1.000 | 1.000 | 1.000 | 1.000 | | | | |
| | .999 | .978 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | | | | |
| Ptc = 14.824 | Ptc/Pto = | .990 | K = | .0398 | | | | | | | | | | |
| Cp 310-320 | .709 | 1.057 | .674 | .463 | .316 | .042 | -.126 | -.132 | -.136 | -.126 | -.098 | | | |
| Cp 321-329 | .555 | .978 | .832 | .630 | .510 | .268 | .068 | .006 | -.086 | | | | | |
| Ps 301-309 | 11.980 | 11.050 | 11.694 | 12.164 | 12.502 | 12.854 | 12.961 | 13.005 | 13.050 | | | | | |
| Ps 201-206 | 12.865 | 12.962 | 13.026 | 12.927 | 12.582 | 12.603 | | | | | | | | |
| Ps 207-212 | 12.293 | 12.354 | 12.395 | 12.368 | 12.298 | 12.223 | | | | | | | | |
| Ps 213-224 | 13.729 | 11.934 | 11.495 | 11.250 | 11.354 | 12.116 | 12.262 | 12.348 | 12.377 | 13.235 | 13.245 | 13.195 | | |
| Ps 225-236 | 13.556 | 12.150 | 10.881 | 10.557 | 10.645 | 10.946 | 11.693 | 11.863 | 12.015 | 12.809 | 13.162 | 13.391 | | |
| Ps 237-245 | 14.224 | 14.225 | 14.225 | 14.226 | 14.225 | 13.318 | 12.939 | 12.632 | 12.598 | | | | | |
| Pev = 12.828 | L = | .0299 | Peb = | 12.322 | Ptc/Pev = | 1.156 | Wc = | 1.78 | T = | 82. | B = | 29.99 | | |

Run 23-10 C1 I1 S1 B Eng 2 $\alpha=0^\circ$ $\beta=-10^\circ$ m/m* = ~~577~~ 0.734 , 0.729

Pt/Pto 131-144

.999 .998 .999 .997 .992 .988 .999 .999 .999 .994 .989 .978 .980

Cp 330-344

~~.999~~ -.154 -.509 -.489 -.369 .377 -.236 -.586 -.755 -.693 -.605 -.579 -1.087 -.473 -.878

Pt/Pto 101-130

.969 .929 .973 .972 1.000 1.000 1.000 .942 .980 .967
1.000 1.000 1.000 .979 .969 1.000 1.000 1.000 .971
.986 .985 1.000 1.000 1.000 .995 .999 1.000 1.000 1.000

Ptc = 14.751 Ptc/Pto = .986 K = .0721

Cp 310-320

.550 ~~1.041~~ .608 .390 .252 -.021 -.201 -.214 -.220 -.197 -.178

Cp 321-329

-.018 .920 .996 .811 .709 .446 .182 .076 -.045

Ps 301-309 11.683 14.613 11.398 11.973 12.404 12.719 12.801 12.825 12.907

Ps 201-206 12.754 12.859 12.932 12.824 12.455 12.474

Ps 207-212 12.150 12.223 12.281 12.224 12.155 12.078

Ps 213-224 13.609 11.761 11.313 11.056 11.161 11.984 12.125 12.212 12.241 13.084 ~~13.130~~ 13.073

Ps 225-236 12.890 11.470 10.420 10.380 10.666 11.173 11.480 11.663 11.806 12.521 12.929 13.187

Ps 237-245 14.201 14.201 14.203 14.205 14.203 13.181 12.791 12.453 12.438

Pcv = 12.716 L = .0323 Pcb = 12.185 Ptc/Pcw = 1.160 Wc = 1.79 T = 81. B = 29.99

Run 23-12 C1 11 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=10^\circ$ $m/m = .677$ 0.735 , 0.731

Pt/Pto 131-144
 .999 .999 .999 .997 .992 .989 .998 .998 .998 .996 .991 .985 .978 .981
 Cp 330-344
~~.999~~ .568 -.755 -.596 -.417 .390 -.205 -.568 -.746 -.686 -.596 -.554 -1.054 -.476 -.783

Pt/Pto 101-130
 .975 .987 .987 .950 .997 1.000 1.000 1.000 1.000 .962
 1.000 1.000 1.000 1.000 1.000 .977 1.000 1.000 1.000 1.000
 1.000 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.883 Ptc/Pto = .994 K = .0507

Cp 310-320
 .859 ~~1.044~~ .700 .423 .260 -.019 -.159 -.158 -.209 -.189 -.176

Cp 321-329
 .334 .603 .159 -.051 -.106 -.219 -.228 -.189 -.174

Ps 301-309 13.060 11.923 12.555 12.864 12.991 12.990 13.056 13.131 13.168

Ps 201-206 12.959 13.041 13.142 13.025 12.696 12.714

Ps 207-212 12.421 12.477 12.514 12.489 12.428 12.352

Ps 213-224 13.922 12.328 11.938 11.733 11.812 12.384 12.543 12.588 12.587 13.333 ~~13.352~~ 13.282

Ps 225-236 14.637 13.677 12.435 11.914 11.591 11.836 12.254 12.275 12.310 12.973 13.354 13.631

Ps 237-245 14.220 14.220 14.222 14.223 14.220 13.382 13.045 12.761 12.720

Pev = 12.930 L = .0300 Pcb = 12.447 Ptc/Pcv = 1.151 Wc = 1.77 T = 79. B = 29.99

626.

-.506 -.852

.952

88.

.000

$$X = .0591$$

-135

- . 240

12.868

12.355

11.924

13.005

13.391

12.368

29.91

Run 23-14 C1 I1 S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=4^\circ$ m/m* = ~~0.677~~ 0.730

Pt/Pto 131-144

.999 .999 .998 .995 .991 .987 .999 .999 .998 .995 .991 .986 .977 .980

Cp 330-344

~~0.954~~ -.430 -.674 -.535 -.346 .387 -.274 -.644 -.808 -.728 -.622 -.569 -1.099 -.470 -.824

Pt/Pto 101-130

.971 .977 .968 .940 .999 1.000 1.000 1.000 .999 .950
1.000 1.000 1.000 1.000 1.000 .961 1.000 1.000 1.000 1.000
1.000 .983 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.799 Ptc/Pto = .991 K = .0599

Cp 310-320

.840 ~~0.818~~ .699 .452 .295 .015 -.119 -.116 -.133 -.112 -.083

Cp 321-329

.858 .928 .655 .402 .296 .088 -.047 -.069 -.133

Ps 301-309 12.137 11.228 11.584 12.009 12.341 12.632 12.738 12.807 12.841

Ps 201-206 12.618 12.719 12.823 12.683 12.302 12.337

Ps 207-212 11.988 12.056 12.038 12.062 11.991 11.304

Ps 213-224 13.737 11.891 11.399 11.100 11.171 11.892 12.059 12.126 12.137 13.046 ~~16.318~~ 12.995

Ps 225-236 13.967 12.604 11.157 10.649 10.477 10.807 11.600 11.642 11.734 12.616 13.057 13.348

Ps 237-245 14.130 14.130 14.131 14.132 14.130 13.100 12.724 12.392 12.347

Pcv = 12.580 L = .0352 Pcb = 12.017 Ptc/Pcv = 1.176 Wc = 1.87 T = 73. B = 29.91

Run 23-15 C1 I1 S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=-4^\circ$ m/m* = ~~577~~ 0.735, 0.727

Pt/Pto 131-144

.999 .999 .998 .995 .991 .987 .999 .999 .999 .996 .992 .988 .977 .980

Cp 330-344

~~.999~~ -.294 -.606 -.517 -.361 .381 -.282 -.646 -.809 -.725 -.623 -.585 -1.102 -.481 -.881

Pt/Pto 101-130

.968 .947 .971 .957 1.000 1.000 1.000 .975 .977 .955
1.000 1.000 1.000 .991 .986 .954 1.000 1.000 .999
.999 .969 1.000 1.000 1.000 1.000 .928 1.000 1.000

Ptc = 14.745 Ptc/Pto = .988 K = .0534

Cp 310-320

.677 ~~.647~~ .655 .424 .274 -.001 -.155 -.163 -.138 -.110

Cp 321-329

.321 .972 .906 .705 .573 .321 .085 -.001 -.105

Ps 301-309 11.439 14.321 11.107 11.694 12.104 12.482 12.598 12.634 12.688

Ps 201-206 12.473 12.588 12.660 12.539 12.136 12.171

Ps 207-212 11.799 11.872 11.924 11.885 11.799 11.712

Ps 213-224 13.590 11.621 11.092 10.754 10.827 11.669 11.829 11.914 11.936 12.956 ~~12.957~~ 12.857

Ps 225-236 13.155 11.622 10.236 9.898 10.029 10.432 11.112 11.342 11.526 12.321 12.805 13.068

Ps 237-245 14.119 14.119 14.120 14.117 14.120 12.976 12.570 12.207 12.158

Pcw = 12.428 L = .0355 Fcb = 11.832 Ptc/Pcw = 1.186 Wc = 1.90 T = 75. B = 29.90

0.730

Pto 131-144

62£.

330-344

--.53C -1.035

WFO 101-130

1.138

$$= 17.187$$
$$X = 45.57$$

310-320

- .205

321-329

-035

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ps 301-309 | 17.054 | 15.173 | 15.500 | 17.223 | 18.411 | 14.787 | 18.104 | 17.335 | 15.276 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Ps 201-206 17.610 16.323 15.430 16.834 15.933 15.615

15.543 16.616 17.976 14.704 15.525 15.261

| | | | | | | | | | | | | | |
|-----|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|
| \$s | 13-24 | 16.750 | 16.292 | 15.558 | 14.453 | 17.429 | 15.451 | 17.126 | 17.337 | 17.148 | 13.843 | 18.292 | 12.653 |
|-----|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|

| | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 | 2101 | 2102 | 2103 | 2104 | 2105 | 2106 | 2107 | 2108 | 2109 | 2110 | 2111 | 2112 | 2113 | 2114 | 2115 | 2116 | 2117 | 2118 | 2119 | 2120 | 2121 | 2122 | 2123 | 2124 | 2125 | 2126 | 2127 | 2128 | 2129 | 2130 | 2131 | 2132 | 2133 | 2134 | 2135 | 2136 | 2137 | 2138 | 2139 | 2140 | 2141 | 2142 | 2143 | 2144 | 2145 | 2146 | 2147 | 2148 | 2149 | 2150 | 2151 | 2152 | 2153 | 2154 | 2155 | 2156 | 2157 | 2158 | 2159 | 2160 | 2161 | 2162 | 2163 | 2164 | 2165 | 2166 | 2167 | 2168 | 2169 | 2170 | 2171 | 2172 | 2173 | 2174 | 2175 | 2176 | 2177 | 2178 | 2179 | 2180 | 2181 | 2182 | 2183 | 2184 | 2185 | 2186 | 2187 | 2188 | 2189 | 2190 | 2191 | 2192 | 2193 | 2194 | 2195 | 2196 | 2197 | 2198 | 2199 | 2200 | 2201 | 2202 | 2203 | 2204 | 2205 | 2206 | 2207 | 2208 | 2209 | 2210 | 2211 | 2212 | 2213 | 2214 | 2215 | 2216 | 2217 | 2218 | 2219 | 2220 | 2221 | 2222 | 2223 | 2224 | 2225 | 2226 | 2227 | 2228 | 2229 | 2230 | 2231 | 2232 | 2233 | 2234 | 2235 | 2236 | 2237 | 2238 | 2239 | 2240 | 2241 | 2242 | 2243 | 2244 | 2245 | 2246 | 2247 | 2248 | 2249 | 2250 | 2251 | 2252 | 2253 | 2254 | 2255 | 2256 | 2257 | 2258 | 2259 | 2260 | 2261 | 2262 | 2263 | 2264 | 2265 | 2266 | 2267 | 2268 | 2269 | 2270 | 2271 | 2272 | 2273 | 2274 | 2275 | 2276 | 2277 | 2278 | 2279 | 2280 | 2281 | 2282 | 2283 | 2284 | 2285 | 2286 | 2287 | 2288 | 2289 | 2290 | 2291 | 2292 | 2293 | 2294 | 2295 | 2296 | 2297 | 2298 | 2299 | 2300 | 2301 | 2302 | 2303 | 2304 | 2305 | 2306 | 2307 | 2308 | 2309 | 2310 | 2311 | 2312 | 2313 | 2314 | 2315 | 2316 | 2317 | 2318 | 2319 | 2320 | 2321 | 2322 | 2323 | 2324 | 2325 | 2326 | 2327 | 2328 | 2329 | 2330 | 2331 | 2332 | 2333 | 2334 | 2335 | 2336 | 2337 | 2338 | 2339 | 2340 | 2341 | 2342 | 2343 | 2344 | 2345 | 2346 | 2347 | 2348 | 2349 | 2350 | 2351 | 2352 | 2353 | 2354 | 2355 | 2356 | 2357 | 2358 | 2359 | 2360 | 2361 | 2362 | 2363 | 2364 | 2365 | 2366 | 2367 | 2368 | 2369 | 2370 | 2371 | 2372 | 2373 | 2374 | 2375 | 2376 | 2377 | 2378 | 2379 | 2380 | 2381 | 2382 | 2383 | 2384 | 2385 | 2386 | 2387 | 2388 | 2389 | 2390 | 2391 | 2392 | 2393 | 2394 | 2395 | 2396 | 2397 | 2398 | 2399 | 2400 | 2401 | 2402 | 2403 | 2404 | 2405 | 2406 | 2407 | 2408 | 2409 | 2410 | 2411 | 2412 | 2413 | 2414 | 2415 | 2416 | 2417 | 2418 | 2419 | 2420 | 2421 | 2422 | 2423 | 2424 | 2425 | 2426 | 2427 | 2428 | 2429 | 2430 | 2431 | 2432 | 2433 | 2434 | 2435 | 2436 | 2437 | 2438 | 2439 | 2 |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|

| | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 237-245 | 14.815 | 12.660 | 13.555 | 12.339 | 13.683 | 15.347 | 15.107 | 17.304 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|

| FeV | L | FeB | FeV/FeB | T | B |
|--------|-------|--------|---------|------|-------|
| 16.301 | .1234 | 16.164 | 1.054 | 1.35 | 78 |
| | | | | | 78.30 |

Run 23-17 C1 11 51 51 Eng 2 $\alpha = 4^\circ$ $\beta = 10^\circ$ m/m $\gamma = 0.729$

It/Pto 131-144

.999 .998 .999 .998 .993 .989 .999 .999 .999 .999 .999 .999 .995 .990 .977 .980

Cp 330-344

~~.999~~ -.060 -.424 -.428 -.233 .411 -.153 -.195 -.570 -.547 -.573 -.606 -.115 -.479 -.960

It/It > 101-130

.964 .920 .972 .975 1.000 1.000 1.000 .938 .970 .930
1.000 1.000 1.000 .977 .970 1.000 1.000 1.000 .971
.900 .999 1.000 1.000 1.000 .995 .999 1.000 1.000 1.000

Pto = 14.900 Pto/Pto = .934 K = .000

Cp 310-320

.800 ~~.999~~ .999 .900 .900 .882 -.134 -.150 -.164 -.170 -.150

Cp 321-329

.895 .900 .800 .890 .435 .100 .099 -.000

Is 301-309 11.520 14.043 10.064 11.544 10.040 12.337 12.426 12.440 11.540

Is 301-309 12.307 12.493 12.577 12.442 12.615 12.046

Is 307-312 11.559 11.799 11.611 11.730 11.657 11.570

Is 313-324 13.130 11.070 10.624 10.390 10.495 11.509 11.601 11.704 11.790 12.757 ~~11.775~~ 12.740

Is 325-236 12.719 11.150 10.893 10.794 10.693 10.677 10.693 11.604 12.115 12.577 12.880

Is 337-245 14.091 14.091 14.092 14.095 14.093 12.872 12.429 12.030 12.016

Pto = 12.300 L = .0070 Pto = 11.697 Pto/Pto = 1.192 Pto = 1.00 T = 80. B = 29.90

Run 23-16 C1 I1 S1 S1 Eng 2 $\alpha = -4^\circ$ $\beta = -4^\circ$ $m/m^2 = 677-736$

| | | | | | | | | | | | | | |
|----------------|-----------------|------------------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|------------------|-------------------|-------------------|------------------|
| Pt/Pto 131-144 | .999 | .999 | .998 | .993 | .989 | .993 | .999 | .999 | .999 | .995 | .990 | .978 | .981 |
| Cp 330-344 | .966 | -.159 | -.470 | -.428 | -.306 | .463 | -.114 | -.472 | -.664 | -.630 | -.558 | -1.124 | -.448 |
| Pt/Pto 101-130 | .966 | .957 | .969 | .956 | 1.000 | 1.000 | 1.000 | .993 | .976 | .957 | | | |
| | 1.000 | 1.000 | 1.000 | .999 | .990 | .962 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| | .999 | .981 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | | | |
| Ptc = 14.777 | Ptc/Pto = .990 | K = .0446 | | | | | | | | | | | |
| Cp 310-320 | .491 | .941 | .802 | .570 | .431 | .138 | -.077 | -.094 | -.110 | -.111 | -.093 | | |
| Cp 321-329 | .539 | .991 | .842 | .603 | .400 | .237 | .050 | -.000 | -.073 | | | | |
| Ps 301-309 | 11.816 | 14.559 | 11.238 | 11.769 | 12.146 | 12.496 | 12.603 | 12.647 | 12.703 | | | | |
| Ps 201-206 | 12.480 | 12.593 | 12.600 | 12.545 | 12.142 | 12.176 | | | | | | | |
| Ps 207-212 | 11.806 | 11.879 | 11.929 | 11.888 | 11.805 | 11.717 | | | | | | | |
| Ps 213-224 | 13.250 | 11.273 | 10.810 | 10.572 | 10.696 | 11.637 | 11.799 | 11.896 | 11.930 | 12.920 | 12.937 | 12.869 | |
| Ps 225-236 | 13.399 | 11.873 | 10.387 | 9.940 | 9.971 | 10.299 | 11.190 | 11.364 | 11.529 | 12.447 | 12.842 | 13.100 | |
| Ps 237-245 | 14.114 | 14.115 | 14.115 | 14.117 | 14.115 | 12.990 | 12.586 | 12.223 | 12.180 | | | | |
| Pcv = 12.433 | L = .0350 | Pcb = 11.837 | Ptc/Pcv = 1.189 | Wc = 1.90 | T = 81. | B = 29.90 | | | | | | | |

Run 23-19 C1 I1 S1 B1 Eng 2 $\alpha = -4^\circ$ $\beta = 4^\circ$ $m/m' = \frac{1}{2}$ 0.735 , 0.730

Pt/Pto 131-144

1.000 .999 1.000 .998 .773 .983 .999 .999 .998 .994 .983 .979 .981

Cp 33C-344

~~.984~~ -.359 -.604 -.509 -.360 .477 -.105 -.468 -.665 -.530 -.557 -.553 -1.110 -.461 -.849

Pt/Pto 101-130

.970 .978 .964 .944 .999 1.000 1.000 1.000 .999 .954
1.000 1.000 1.000 1.000 .963 1.000 1.000 1.000 1.000 1.000
1.000 .993 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.807 Ptc/Pto = .992 K = .0560

Cp 310-320

.638 ~~.933~~ .774 .582 .423 .125 -.080 -.092 -.135 -.131 -.123

Cp 321-329

.915 .836 .453 .212 .116 -.062 -.155 -.139 -.170

Ps 301-309 12.339 11.227 11.755 12.132 12.476 12.629 12.714 12.787 12.829

Ps 201-206 12.603 12.701 12.802 12.866 12.277 12.313

Ps 207-212 11.964 12.032 12.073 12.041 11.965 11.879

Ps 213-224 13.418 11.581 11.155 10.955 11.071 11.675 12.034 12.105 12.119 13.031 ~~13.062~~ 12.979

Ps 225-236 14.159 12.855 11.393 10.835 10.591 10.896 11.641 11.666 11.747 12.605 13.047 13.344

Ps 237-245 14.125 14.126 14.126 14.128 14.127 13.083 12.707 12.374 12.327

Pcv = 12.560 L = .0355 Peb = 1.992 Ptc/Pcv = 1.179 Wc = 1.86 T = 83. B = 29.90

Run 23-20 Cl II SI B1 Eng 2 $\alpha = -4^\circ$ $\beta = 10^\circ$ $m/m^* = .677$ 0.732, 0.727

Pt/Pto 131-144

.999 1.000 1.000 .998 .994 .990 .998 .998 .997 .993 .986 .978 .980

Cp 330-344

~~.999~~ .563 -.754 -.622 -.468 .433 -.126 -.487 -.682 -.650 -.581 -.592 -1.182 -.516 -.896

Pt/Pto 101-130

.971 .983 .983 .944 .996 .999 1.000 1.000 1.000 .957
1.000 1.000 1.000 1.000 1.000 .975 1.000 1.000 1.000 1.000
1.000 .998 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.825 Ptc/Pto = .993 K = .0560

Cp 310-320

.630 .948 .754 .532 .363 .063 -.143 -.155 -.222 -.215 -.216

Cp 321-329

.877 .555 .084 -.121 -.179 -.293 -.301 -.251 -.242

Ps 301-309 12.935 11.438 12.175 12.542 12.692 12.676 12.749 12.823 12.862

Ps 201-206 12.636 12.732 12.837 12.706 12.325 12.358

Ps 207-212 12.013 12.079 12.120 12.088 12.015 11.930

Ps 213-224 13.468 11.717 11.322 11.144 11.252 11.982 12.143 12.200 12.201 13.064 ~~13.094~~ 13.010

Ps 225-236 14.527 13.473 12.062 11.453 11.070 11.352 11.836 11.853 11.896 12.659 13.092 13.402

Ps 237-245 14.108 14.108 14.108 14.103 14.108 13.113 12.743 12.419 12.374

Pcv = 12.599 L = .0345 Pcb = 12.041 Ptc/Pcv = 1.177 Wc = 1.86 T = 84. B = 29.90

Run 23-21 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ m/m* = ~~677~~ 0.734

Pt/Pto 131-144

.999 .999 .996 .992 .988 .999 .999 .997 .993 .988 .978 .981

Cp 330-344

~~.957~~ -.300 -.582 -.488 -.330 .439 -.189 -.556 -.739 -.681 -.591 -.561 -1.092 -.458 -.847

Pt/Pto 101-130

.969 .973 .953 .949 .999 1.000 1.000 1.000 .980 .953
1.000 1.000 1.000 1.000 .998 .962 1.000 1.000 1.000 1.000
1.000 .983 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.784 Ptc/Pto = .991 K = .0520

Cp 310-320

.699 ~~.946~~ .757 .519 .364 .074 -.101 -.107 -.125 -.113 -.087

Cp 321-329

.743 .977 .735 .493 .378 .151 -.009 -.043 -.114

Ps 301-309 11.956 10.949 11.434 11.911 12.261 12.586 12.687 12.756 12.802

Ps 201-206 12.578 12.676 12.754 12.638 12.246 12.281

Ps 207-212 11.931 11.997 12.041 12.006 11.928 11.843

Ps 213-224 13.523 11.621 11.144 10.878 10.976 11.794 11.958 12.040 12.060 13.004 ~~13.047~~ 12.954

Ps 225-236 13.713 12.270 10.801 10.320 10.215 10.523 11.458 11.531 1.648 12.577 12.990 13.236

Ps 237-245 14.120 14.121 14.121 14.124 14.121 13.065 12.679 12.337 12.292

Pcv = 12.529 L = .0344 Pcb = 11.956 Ptc/Pcv = 1.180 Wc = 1.86 T = 85. B = 29.90

Run 24-2 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ m/m - ~~211~~ 0.813, 0.820

Pt/Ito 131-144

.090 .099 .093 .997 .992 .388 .099 .099 .097 .993 .988 .976 .980

Cp 330-344

~~211~~ -.305 -.592 -.505 -.305 .436 -.195 -.505 -.757 -.704 -.623 -.650 -1.355 -.530 -1.037

Pt/Ito 101-130

.050 .059 .055 .043 .099 1.000 1.000 .099 .069 .044
1.000 1.000 1.000 1.000 .045 .099 1.000 1.000 1.000
1.000 .063 1.000 1.000 1.000 .099 1.000 .099 1.000 1.000

Ito = 14.773 Pto/Ito = .080 K = .0576

Cp 310-320

.415 ~~0.415~~ .836 .606 .606 .445 .139 -.676 -.691 -.113 -.199 -.083

Cp 321-329

.518 .978 .614 .570 .445 .400 .617 -.024 -.101

Ps 301-309 11.307 13.600 14.495 11.125 11.01 12.384 12.410 12.285 12.338

Ps 201-209 12.041 12.178 12.275 12.134 11.696 11.693

Ps 207-215 11.208 11.318 11.379 11.330 11.213 11.169

Ps 213-224 13.004 10.509 10.204 9.844 9.920 11.012 11.143 11.355 11.387 12.590 ~~12.402~~ 12.525

Ps 225-236 13.360 11.130 9.800 n.g. n.g. 10.529 10.750 10.923 12.062 12.536 12.827

Ps 237-245 14.010 14.009 14.014 14.012 14.013 12.182 12.604 11.770 11.719

Pto = 11.996 L = .0419 Pto = 11.263 Pto/Pto = 1.032 W = 2.04 T = 77. B = 39.99

Run 24-3 C1 I1 S1 E1 Eng 2 a -4 $\beta = 0^\circ$ m/m* ~~721~~ 0.815, 0.819

| | | | | | | | | | | | | | |
|----------------|----------------|----------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|-------------------|--------------|--------------|
| Pt/Pto 131-144 | .999 | .999 | .998 | .993 | .989 | .999 | .999 | .999 | .994 | .989 | .977 | .980 | |
| Cp 330-344 | 147 | -.251 | -.538 | -.473 | -.352 | .481 | -.108 | -.475 | -.678 | -.649 | -.581 | -.635 -1.354 | -.511 -1.035 |
| Pt/Pto 101-130 | .960 | .962 | .953 | .943 | .999 | 1.000 | 1.000 | 1.000 | .968 | .945 | | | |
| | 1.000 | 1.000 | 1.000 | 1.000 | .994 | .951 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| | 1.000 | .977 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| Ptc = 14.789 | Ptc/Pto = .988 | K = .0578 | | | | | | | | | | | |
| Cp 310-320 | .279 | 898 | .876 | .670 | .513 | .202 | -.044 | -.066 | -.098 | -.102 | -.090 | | |
| Cp321-329 | .610 | .960 | .743 | .489 | .373 | .128 | -.023 | -.052 | -.106 | | | | |
| Ps 301-309 | 11.512 | 13.857 | 14.594 | 11.203 | 11.661 | 12.076 | 12.218 | 12.296 | 12.355 | | | | |
| Ps 201-206 | 12.054 | 12.192 | 12.287 | 12.146 | 11.667 | 11.708 | | | | | | | |
| Ps 207-212 | 11.244 | 11.344 | 11.394 | 11.344 | 11.229 | 11.128 | | | | | | | |
| Ps 213-224 | 12.911 | 10.647 | 10.144 | 9.781 | 9.893 | 11.035 | 11.254 | 11.369 | 11.404 | 12.611 | 12.798 | 12.537 | |
| Ps 225-236 | 13.484 | 11.822 | 10.010 | n.g. | n.g. | n.g. | 10.662 | 10.774 | 10.937 | 12.088 | 12.561 | 12.855 | |
| Ps 237-245 | 14.017 | 14.016 | 14.019 | 14.021 | 14.019 | 12.692 | 12.219 | 11.788 | 11.738 | | | | |
| Pcw = 12.009 | L = .0419 | Pcb = 11.279 | Ptc/Pcw = 1.231 | Wc = 2.03 | T = 79. | B = 29.99 | | | | | | | |

Run 24-4 C1 I1 S1 M1 Eng 2 $\alpha=10^\circ$ $\mu=0^\circ$ m/77 ~~271~~ 0.819

It/It0 131-144

.999 .999 1.000 .999 -.995 .991 .999 .999 .999 .996 .991 .977 .981

Cp 330-344

~~131-144~~ -.107 -.444 -.415 -.322 .550 .036 -.315 -.591 -.592 -.499 -.592 -1.340 -.471 -1.015

It/It0 101-130

.950 .952 .949 .944 .999 1.000 1.000 1.000 .969 .949
1.000 1.000 1.000 1.000 .962 1.000 1.000 1.000 1.000
1.000 .987 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Its = 14.802 It0/Its = .989 R = .0567

Cp 310-320

-.004 ~~.937~~ .941 .768 .520 .307 .040 -.012 -.050 -.070 -.082

Cp 341-359

.914 .630 .370 .290 .028 -.109 -.113 -.139

Ps 301-309 11.791 14.085 19.774 11.352 11.790 12.151 12.286 12.345 1.405

Ps 201-205 12.100 12.240 12.337 12.198 11.725 11.704

Ps 207-212 11.312 11.401 11.496 11.401 11.236 11.198

Is 213-224 12.504 10.396 9.973 9.719 9.879 11.093 11.301 11.417 11.458 12.655 ~~12.667~~ 12.580

Ps 225-236 13.042 12.022 10.213 n.g. n.g. 10.779 10.958 11.041 12.144 12.641 12.928

Ps 237-245 14.030 14.032 14.031 14.034 14.031 12.736 12.269 11.845 17.793

Fev = 12.062 L = .0413 Fev = 11.344 Itc/Fev = 1.227 We = 2.02 T = 81. B = 29.99

Run 24-5 C1 II S1 B1 Eng 2 $\alpha = -20^\circ$ $\beta = 0^\circ$ $m/n^* = 741$ 0.820

Pt/Pto 131-144

.999 .999 1.000 1.000 .997 .993 .999 .999 .999 1.000 .999 .994 .981

Cp 330-344

~~105~~ -.037 -.261 -.289 -.257 .691 .299 -.009 -.237 -.291 -.292 -.468 -1.279 -.352 -.948

Pt/Pto 101-130

.954 .961 .948 .944 .999 1.000 1.000 1.000 .978 .355
1.000 1.000 1.000 .999 .971 1.000 1.000 1.000 1.000
1.000 .994 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.815 Ptc/Pto = .990 K = .0562

Cp 310-320

~~743~~ .938 .907 .792 .514 .174 .119 .043 .005 -.029

Cp 321-329

.637 .761 .416 .142 .029 -.177 -.300 -.271 -.261

Ps 301-309 12.215 14.265 10.986 11.578 11.987 12.172 12.294 12.379 12.438

Ps 201-206 12.143 12.267 12.370 12.235 11.762 11.799

Ps 207-212 11.354 11.443 11.499 11.443 11.343 11.240

Ps 213-224 11.935 9.854 9.584 n.g. 9.743 11.091 11.317 11.447 11.494 12.683 ~~12.708~~ 12.610

Ps 225-236 13.804 12.258 10.454 9.699 n.g. 9.708 10.874 10.927 11.054 12.173 12.692 13.003

Ps 237-245 14.049 14.050 14.051 14.053 14.050 12.766 12.302 11.885 11.833

Pcv = 12.096 L = .0411 Feb = 11.387 Ptc/Pcv = 1.225 Wc = 2.01 T = 82. B = 29.99

Run 24-6 C1 I1 S1 E1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ m/m* = ~~725~~ 0.819

Pt/Pto 131-144

.999 .999 .998 .995 .991 .987 .999 .999 .996 .991 .987 .975 .979

Cp 330-344

~~7141~~ -.362 -.647 -.537 -.379 .398 -.280 -.658 -.831 -.754 -.654 -.655 -1.344 -.536 -1.027

Pt/Pto 101-130

.961 .955 .958 .943 1.000 1.000 1.000 .996 .971 .943
1.000 1.000 1.000 .992 .942 1.000 1.000 1.000 1.000
1.000 .961 1.000 1.000 1.000 1.000 .999 1.000 1.000

Ptc = 14.775 Ptc/Pto = .987 K = .0589

Cp 310-320

.571 ~~773~~ .785 .543 .381 .080 -.103 -.124 -.107 -.077

Cp 321-329

.442 .995 .870 .641 .514 .257 .045 -.015 -.107

Ps 301-309 11.116 13.632 14.477 11.127 11.601 12.084 12.246 12.318 12.368

Ps 201-206 12.079 12.214 12.308 12.168 11.695 11.734

Ps 207-212 11.273 11.364 11.423 11.369 11.263 11.162

Ps 213-224 13.288 11.032 10.452 9.996 10.053 11.105 11.303 11.405 11.434 12.621 ~~10.673~~ 12.554

Ps 225-236 13.251 11.570 9.835 n.g. n.g. 10.589 10.789 10.975 12.073 12.544 12.835

Ps 237-245 14.008 14.010 14.013 14.013 14.011 12.710 12.230 11.801 11.755

Pev = 12.033 L = .0415 Peb = 11.309 Ptc/Pev = 1.228 Wc = 2.01 T = 83. B = 29.99

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$P_{EV} = 11.955$ $L = .0426$ $P_{EB} = 11.210$ $P_{TC}/P_{EV} = 1.234$ $W_C = 2.02$ $T = 84.$ $B = 29.99$

Run 24-9 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=-4^\circ$ $m/m' = 721$ 0.815, 0.821

| | | | | | | | | | | | | | | | |
|----------------|------------------|-------------------|--------|--------|-----------|--------|--------|--------|--------|--------|-------------------|--------|--------|-------|--------|
| Pt/Pto 131-144 | .999 | .999 | .997 | .992 | .988 | .999 | .999 | .999 | .998 | .993 | .988 | .976 | .979 | | |
| Cp 330-344 | -.833 | -.230 | -.551 | -.493 | -.370 | .424 | -.208 | -.577 | -.761 | -.707 | -.628 | -.658 | -1.364 | -.534 | -1.066 |
| Pt/Pto 101-130 | .959 | .930 | .968 | .951 | 1.000 | 1.000 | 1.000 | .960 | .975 | .949 | | | | | |
| | 1.000 | 1.000 | 1.000 | .981 | .985 | .948 | 1.000 | 1.000 | 1.000 | .998 | | | | | |
| | .998 | .966 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .998 | 1.000 | 1.000 | | | | | |
| Ptc = 14.750 | Ptc/Pto = | | .986 | K = | | .6717 | | | | | | | | | |
| Cp 310-320 | .345 | -.1043 | .782 | .572 | .420 | .121 | -.096 | -.115 | -.112 | -.112 | -.097 | | | | |
| Cp 321-329 | .181 | .946 | .910 | .715 | .588 | .325 | .100 | .025 | -.073 | | | | | | |
| Ps 301-309 | 11.142 | 13.399 | 14.350 | 11.057 | 11.551 | 12.005 | 12.164 | 12.203 | 12.270 | | | | | | |
| Ps 201-206 | 11.998 | 12.141 | 12.229 | 12.087 | 11.606 | 11.640 | | | | | | | | | |
| Ps 207-212 | 11.166 | 11.263 | 11.330 | 11.257 | 11.158 | 11.052 | | | | | | | | | |
| Ps 213-224 | 13.040 | 10.725 | 10.165 | 9.718 | 9.785 | 10.861 | 11.160 | 11.285 | 11.326 | 12.530 | 12.528 | 12.474 | | | |
| Ps 225-236 | 12.933 | 11.212 | n.g. | n.g. | n.g. | n.g. | 10.305 | 10.642 | 10.873 | 11.924 | 12.405 | 12.713 | | | |
| Ps 237-245 | 13.996 | 13.997 | 13.998 | 14.000 | 13.999 | 12.641 | 12.139 | 11.690 | 11.653 | | | | | | |
| Pcw = 11.950 | L = | .0422 | Fcb = | 11.206 | Ptc/Pcw = | 1.234 | Wc = | 2.02 | T = | 87. | B = | 29.99 | | | |

Run 24-10 C1 I1 S1 B1 Eng 2 $\alpha = 0^\circ$ $\beta = -10^\circ$ $m/m^* = 711$ 0.800 , 0.820

Pt/Pto 131-144

.999 .998 .997 .992 .987 .999 .999 .998 .994 .989 .975 .979

Cp 330-344

~~.915~~ -.166 -.525 -.520 -.427 .363 -.248 -.600 -.778 -.729 -.648 -.697 -1.430 -.575 -1.154

Pt/Pto 101-130

.956 .894 .960 .963 1.000 1.000 1.000 .910 .966 .952
1.000 1.000 .923 .952 1.000 1.000 1.000 .944
.959 .981 1.000 1.000 .993 .985 .994 .999 1.000 1.000

Ptc = 14.622 Ptc/Pto = .977 K = .1089

Cp 310-320

.142 ~~1.470~~ .655 .473 .330 .044 -.178 -.198 -.211 -.190 -.178

Cp 321-329

-.522 .725 .978 .866 .755 .487 .207 .091 -.035

Ps 301-309 10.930 13.011 13.953 14.702 11.358 11.850 11.928 11.938 12.078

Ps 201-206 11.890 12.052 12.144 11.986 11.484 11.514

Ps 207-212 11.021 11.155 11.244 11.121 11.011 10.906

Ps 213-224 12.958 10.618 10.051 9.591 9.662 10.866 11.067 11.175 11.203 12.313 12.332 ~~12.390~~

Ps 225-236 12.239 10.557 n.g. n.g. 10.027 10.311 10.510 10.665 11.465 12.068 12.449

Ps 237-245 13.964 13.962 13.966 13.968 13.967 12.493 11.927 11.449 11.463

Pcv = 11.845 L = .0452 Pev = 11.076 Ptc/Pev = 1.234 Wc = 2.00 T = 88. B = 29.99

[illegible]

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | .0000 | .0001 | .0002 | .0003 | .0004 | .0005 | .0006 | .0007 | .0008 | .0009 |
| 1 | .0010 | .0011 | .0012 | .0013 | .0014 | .0015 | .0016 | .0017 | .0018 | .0019 |
| 2 | .0020 | .0021 | .0022 | .0023 | .0024 | .0025 | .0026 | .0027 | .0028 | .0029 |
| 3 | .0030 | .0031 | .0032 | .0033 | .0034 | .0035 | .0036 | .0037 | .0038 | .0039 |
| 4 | .0040 | .0041 | .0042 | .0043 | .0044 | .0045 | .0046 | .0047 | .0048 | .0049 |
| 5 | .0050 | .0051 | .0052 | .0053 | .0054 | .0055 | .0056 | .0057 | .0058 | .0059 |
| 6 | .0060 | .0061 | .0062 | .0063 | .0064 | .0065 | .0066 | .0067 | .0068 | .0069 |
| 7 | .0070 | .0071 | .0072 | .0073 | .0074 | .0075 | .0076 | .0077 | .0078 | .0079 |
| 8 | .0080 | .0081 | .0082 | .0083 | .0084 | .0085 | .0086 | .0087 | .0088 | .0089 |
| 9 | .0090 | .0091 | .0092 | .0093 | .0094 | .0095 | .0096 | .0097 | .0098 | .0099 |

| Variable | Mean | SD | Alpha | Mean | SD | Alpha | Mean | SD | Alpha |
|----------------------|------|-----|-------|------|-----|-------|------|-----|-------|
| 1. Age | 24.5 | 3.2 | .953 | 24.5 | 3.2 | .953 | 24.5 | 3.2 | .953 |
| 2. Sex | 1.0 | 1.0 | 1.000 | 1.0 | 1.0 | 1.000 | 1.0 | 1.0 | 1.000 |
| 3. Education | 12.5 | 2.1 | .968 | 12.5 | 2.1 | .968 | 12.5 | 2.1 | .968 |
| 4. Income | 15.2 | 4.5 | .982 | 15.2 | 4.5 | .982 | 15.2 | 4.5 | .982 |
| 5. Health | 1.5 | 1.0 | 1.000 | 1.5 | 1.0 | 1.000 | 1.5 | 1.0 | 1.000 |
| 6. Employment | 1.0 | 1.0 | 1.000 | 1.0 | 1.0 | 1.000 | 1.0 | 1.0 | 1.000 |
| 7. Social Support | 1.5 | 1.0 | .934 | 1.5 | 1.0 | .934 | 1.5 | 1.0 | .934 |
| 8. Life Satisfaction | 1.5 | 1.0 | .987 | 1.5 | 1.0 | .987 | 1.5 | 1.0 | .987 |
| 9. Mental Health | 1.5 | 1.0 | .943 | 1.5 | 1.0 | .943 | 1.5 | 1.0 | .943 |

CP 310-320

| | | | | | | | | |
|------|------|------|------|------|------|-------|-------|-------|
| .773 | .950 | .676 | .404 | .287 | .070 | -.064 | -.077 | -.135 |
|------|------|------|------|------|------|-------|-------|-------|

Pa 201-206 12.084 12.209 12.318 12.173 11.696 11.734

| | | | | | | | | | | | | | |
|----|---------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------------------|--------|
| Pa | 213-224 | 13.136 | 10.910 | 10.383 | 9.984 | 10.062 | 11.000 | 11.317 | 11.427 | 11.453 | 12.637 | 12.630 | 12.569 |
|----|---------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------------------|--------|

Pa 237-245 13.984 13.985 13.987 13.988 13.986 12.723 12.246 11.824 11.774

Pcw = 12.036 L = .0420 Pcb = 11.312 Ptc/Pcv = 1.230 Wc = 2.01 T = 89. B = 29.99

Run 24-12 C1 D S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=10^\circ$ $\mu/\text{m}^2 = .741$ 0.820, 0.818

Pt/Pto 131-144
 .999 .999 .997 .992 .988 .998 .997 .997 .996 .991 .983 .975 .979
 Cp 330-344
 -.581 -.779 -.626 -.463 .381 -.223 -.593 -.779 -.731 -.651 -.693 -1.454 -.582 -1.061

Pt/Pto 101-130
 .964 .977 .972 .930 .996 1.000 1.000 1.000 1.000 .944
 1.000 1.000 1.000 1.000 .963 1.000 1.000 1.000 1.000
 1.000 .994 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.835 Ptc/Pto = .991 K = .0708

Cp 310-320
 .480 ~~.2401~~ .832 .574 .401 .083 -.127 -.138 -.196 -.185 -.178

Cp 321-329
 .951 .797 .366 .116 .027 -.133 -.188 -.158 -.164

Ps 301-309 11.986 14.477 11.095 11.631 11.980 12.137 12.259 12.366 12.414

Ps 201-206 12.108 12.229 12.365 12.196 11.725 11.761

Ps 207-212 11.311 11.399 11.456 11.400 11.300 11.197

Ps 213-224 13.178 11.042 10.550 10.192 10.266 11.133 11.431 11.515 11.526 12.662 ~~12.689~~ 12.592

Ps 225-236 14.216 12.816 11.067 10.292 9.822 10.188 11.024 11.024 11.103 12.145 12.689 13.058

Ps 237-245 13.954 13.955 13.957 13.957 13.957 12.740 12.272 11.859 11.803

Pcw = 12.064 L = .0431 Pcb = 11.344 Ptc/Pcw = 1.230 Wc = 2.01 T = 91. B = 29.99

Run 27-1 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $\gamma=0^\circ$ 0.506

Pt/Pto 131-144

1.000 1.000 .999 .995 .989 .985 1.000 1.000 1.000 .997 .990 .985 .978 .974

Cp 330-344

~~1.000~~ .999 .989 .985 1.000 1.000 1.000 1.000 .997 .990 .985 .978 .974

Pt/Pto 101-130

.989 .993 .989 .980 1.000 1.000 1.000 1.000 1.000 .992
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 15.065 Ptc/Pto = .999 K = .0211

Cp 310-320

.672 ~~1.000~~ .067 -.048 -.119 -.250 -.195 -.164 -.123 -.081

Cp 321-329

.769 .427 .107 .008 -.014 -.106 -.141 -.119 -.139

Pa 301-309 14.522 13.830 14.011 14.076 14.105 14.111 14.175 14.207 14.231

Pa 201-206 14.145 14.174 14.201 14.165 14.011 14.035

Pa 207-212 13.883 13.907 13.925 13.917 13.892 13.854

Pa 213-224 15.055 14.204 13.858 13.613 13.612 13.749 13.916 13.949 13.947 14.306 ~~14.357~~ 14.290

Pa 225-236 15.032 14.513 13.754 13.485 13.356 13.503 13.686 13.752 13.778 14.119 14.307 14.438

Pa 237-245 14.551 14.550 14.551 14.551 14.551 14.342 14.170 14.030 14.009

Pcv = 14.122 L = .0126 Feb = 13.896 Ptc/Pcv = 1.067 Wc = 1.30 T = 75. B = 29.88

Run 27-2 C1 II S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ $m/m^*=1.24$ 0.505

Pt/Pto 131-144

1.000 1.000 1.000 .997 .991 .987 1.000 1.000 1.000 .999 .993 .987 .981 .974

Cp 330-344

.7169 - .195 - .452 - .347 - .142 .521 - .043 - .384 - .550 - .482 - .378 - .142 - .149 - .108 - .064

Pt/Pto 101-130

.988 .994 .992 .984 1.001 1.001 1.001 1.001 1.001 1.001 .998
1.001 1.001 1.001 1.000 1.000 1.000 1.001 1.001 1.001
1.000 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Ptc = 15.074 Ptc/Pto = .999 K = .0166

Cp 310-320

.796 .832 .193 .054 - .026 - .177 - .162 - .140 - .146 - .116 - .084

Cp 321-329

.675 .326 .010 - .084 - .098 - .170 - .185 - .148 - .160

Ps 301-309 14.652 13.893 14.058 14.116 14.137 14.128 14.185 14.219 14.240

Ps 201-206 14.156 14.183 14.210 14.176 14.021 14.045

Ps 207-212 13.894 13.919 13.935 13.929 13.902 13.866

Ps 213-224 15.014 14.097 13.768 13.559 13.582 13.712 13.919 13.948 13.951 14.314 ~~14.337~~ 14.298

Ps 225-236 15.041 14.597 13.849 13.562 13.410 13.557 13.703 13.775 13.797 14.130 14.317 14.450

Ps 237-245 14.561 14.561 14.561 14.561 14.562 14.350 14.178 14.040 14.021

Pev = 14.132 L = .0125 Peb = 13.908 Ptc/Pev = 1.067 Wc = 1.29 T = 77. B = 29.88

Run 27-3 C1 I1 S1 B1 Eng 2 $\alpha = -10^\circ$ $\beta = 0^\circ$ $m/m^* = .474$ 0.505

Pt/Pto 131-144
1.000 1.000 1.000 .994 .989 1.000 1.000 1.000 1.000 1.000 .996 .990 .984 .974
Cp 330-344
.160 -.114 -.362 -.297 -.133 .593 .100 -.227 -.409 -.376 -.297 -.155 -.138 -.076 -.057

Pt/Pto 101-130
.987 .994 .987 1.000 1.001 1.001 1.001 1.000 1.000 1.000
1.001 1.001 1.001 1.000 1.001 1.001 1.001 1.001 1.001
1.001 1.000 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Ptc = 15.077 Ptc/Pto = .999 K = .0137

Cp 310-320
.941 .864 .390 .225 .131 -.044 -.091 -.082 -.108 -.090 -.077

Cp 321-329
.516 .151 -.151 -.232 -.231 -.280 -.272 -.219 -.205
Ps 301-309 14.818 13.976 14.123 14.168 14.178 14.147 14.196 14.226 14.249

Ps 201-206 14.165 14.191 14.217 14.185 14.029 14.053

Ps 207-212 13.904 13.928 13.945 13.938 13.913 13.876

Ps 213-224 14.903 13.902 13.613 13.468 13.528 13.687 13.911 13.941 13.950 14.320 14.340 14.303

Ps 225-236 15.033 14.707 13.973 13.668 13.484 13.632 13.713 13.802 13.821 14.140 14.325 14.460

Ps 237-245 14.579 14.578 14.578 14.579 14.579 14.357 14.186 14.049 14.029

Pev = 14.140 L = .0124 Pcb = 13.917 Ptc/Pev = 1.066 Wc = 1.29 T = 80. B = 29.88

Run 27-4 C1 D1 S1 B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $\mu/\mu^*=1.474$ 0.506

Pt/Pto 131-144

1.000 1.000 1.000 1.000 .998 .993 1.000 1.000 1.000 1.000 1.000 1.000 1.000 .987 .974

Cp 330-344

~~1.000~~ .015 -.192 -.187 -.103 .724 .360 .072 -.120 -.143 -.108 -.001 -.094 .015 -.024

Pt/Pto 101-130

.984 .993 .998 .988 1.000 1.000 1.001 1.001 1.000 1.000 1.000 1.000 1.000 1.001 1.001 1.000 1.000 1.000 1.000

Ptc = 15.076 Ptc/Pto = .999 K = .0169

Cp 310-320

1.016 ~~1.000~~ .697 .525 .420 .218 .072 .056 .000 -.005 -.022

Cp 321-329

.260 -.096 -.391 -.460 -.440 -.469 -.459 -.383 -.341

Pb 301-309 14.955 13.846 14.187 14.217 14.209 14.138 14.171 14.199 14.224

Pb 201-206 14.140 14.163 14.190 14.160 13.999 14.024

Pb 207-212 13.870 13.894 13.912 13.905 13.878 13.841

Pb 213-224 14.528 13.438 13.240 13.225 13.343 13.717 13.836 13.883 13.900 14.297 ~~14.332~~ 14.280

Pb 225-236 14.992 14.787 14.080 13.745 13.515 13.646 13.699 13.785 13.802 14.117 14.306 14.450

Pb 237-245 14.609 14.610 14.609 14.610 14.609 14.333 14.160 14.019 14.000

Pew = 14.113 L = .0127 Peb = 13.884 Ptc/Pev = 1.068 Wc = 1.30 F = 81. B = 29.88

Run 27-5 C1 I1 S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ $m/m^*=1.74$ 0.508, 0.503

Pt/Pto 131-144

1.000 .999 .996 .991 .986 .983 1.000 1.000 .997 .993 .987 .983 .975 .973

Cp 330-344

~~7464~~ -.295 -.550 -.395 -.145 .434 -.210 -.555 -.689 -.576 -.438 -.156 -.135 -.123 -.054

Pt/Pto 101-130

.990 .993 .989 .973 1.000 1.001 1.001 1.001 1.001 .984
1.001 1.001 1.001 1.001 .996 1.001 1.001 1.001 1.001
1.001 1.000 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Ptc = 15.059 Ptc/Pto = .998 K = .0273

Cp 310-320

.545 ~~308~~ -.044 -.148 -.205 -.316 -.222 -.189 -.177 -.124 -.075

Cp 321-329

.856 .543 .220 .102 .066 -.044 -.108 -.107 -.148

Pa 301-309 14.273 13.730 13.952 14.028 14.066 14.091 14.158 14.192 14.211

Pa 201-206 14.129 14.156 14.186 14.145 13.991 14.015

Pa 207-212 13.860 13.885 13.901 13.894 13.869 13.826

Pa 213-224 15.081 14.296 13.932 13.653 13.625 13.770 13.895 13.941 13.936 14.292 ~~14.317~~ 14.277

Pa 225-236 15.011 14.407 13.639 13.384 13.280 ~~13.440~~ 13.664 13.717 13.745 14.100 14.292 14.426

Pa 237-245 14.541 14.541 14.541 14.541 14.542 14.325 14.153 14.010 13.991

Pe_y = 14.104 L = .0129 Pe_b = 13.872 Ptc/Pe_y = 1.068 We = 1.29 T = 83. B = 29.88

Run 27-6 C1 I1 S1 H1 Eng 2 $\alpha=10^\circ$ $\beta=0^\circ$ $m/m^* = 1.74$ 0.508

| | | | | | | | | | | | | | | |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Pt/Pt ₀ 131-144 | .999 | .995 | .991 | .986 | .982 | .980 | .998 | .995 | .991 | .987 | .983 | .980 | .973 | .971 |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|

[illegible][illegible]

$P_{TC} = 15.049$ $P_{TC}/P_{TO} = .997$ $K = .0296$

[illegible]

| | | | | | | | | |
|------------|------|------|------|------|------|-------|-------|-------|
| CP 321-329 | .681 | .369 | .230 | .180 | .033 | -.078 | -.110 | -.192 |
| 944 | | | | | | | | |

Fr 301-309 13.626 13.647 13.892 13.984 14.035 14.091 14.168 14.201 14.216

Ps 201-206 14.139 14.164 14.197 14.153 14.004 14.025

Pa 207-212 13.873 13.897 13.915 13.905 13.882 13.845

| | | | | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|
| Pb 213-224 | 15.089 | 14.433 | 14.057 | 13.739 | 13.678 | 13.821 | 13.898 | 13.952 | 13.952 | 14.299 | 14.352 | 14.287 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|

Pb 225-236 14.935 14.927 13.473 13.259 13.207 13.370 13.672 13.699 13.737 14.104 14.297 14.424

| | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pb | 237-245 | 14.536 | 14.536 | 14.536 | 14.537 | 14.536 | 14.339 | 14.163 | 14.022 | 14.002 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

$P_{ev} = 14.114$ $L = .0128$ $P_{eb} = 13.886$ $P_{tc}/P_{ev} = 1.066$ $W_c = 1.28$ $T = 85.$ $B = 29.88$

Run 27-7 C1 I1 S1 E1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $\mu/\mu^* = .14$ 0.504

| | | | | | | | | | | | | | | |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|-----------------|-----------------|-----------------|
| Pt/Pto 131-144 | .996 | .992 | .988 | .984 | .981 | .979 | .996 | .993 | .989 | .986 | .982 | .979 | .972 | .970 |
| Cp 330-344 | .993 | .992 | .988 | .984 | .981 | .979 | .996 | .993 | .989 | .986 | .982 | .979 | .972 | .970 |
| | .992 | .992 | .988 | .984 | .981 | .979 | .996 | .993 | .989 | .986 | .982 | .979 | .972 | .970 |
| Pt/Pto 101-130 | .992 | .992 | .977 | .976 | 1.001 | 1.001 | 1.001 | 1.001 | .991 | .981 | | | | |
| | 1.001 | 1.001 | 1.000 | .999 | .991 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | | | | |
| | 1.000 | .998 | 1.001 | 1.001 | 1.001 | 1.000 | 1.001 | 1.000 | 1.001 | 1.001 | | | | |
| Ptc = 15.037 | Ptc/Pto = .997 | K = .0249 | | | | | | | | | | | | |
| Cp 310-320 | .045 | .364 | .387 | .402 | .410 | .439 | .219 | .147 | .135 | .069 | .046 | | | |
| | .045 | .364 | .387 | .402 | .410 | .439 | .219 | .147 | .135 | .069 | .046 | | | |
| Cp 321-329 | .974 | .845 | .567 | .410 | .340 | .157 | .026 | .100 | .204 | | | | | |
| Ps 301-309 | 13.779 | 13.536 | 13.803 | 13.932 | 13.996 | 14.052 | 14.132 | 14.164 | 14.186 | | | | | |
| Ps 201-206 | 14.107 | 14.133 | 14.163 | 14.127 | 13.968 | 13.991 | | | | | | | | |
| Ps 207-212 | 13.835 | 13.860 | 13.878 | 13.869 | 13.842 | 13.805 | | | | | | | | |
| Ps 213-224 | 15.076 | 14.554 | 14.165 | 13.803 | 13.702 | 13.833 | 13.889 | 13.926 | 13.926 | 14.274 | 14.306 | 14.259 | | |
| Ps 225-236 | 14.664 | 13.792 | 13.112 | 12.989 | 13.040 | 13.186 | 13.601 | 13.632 | 13.686 | 14.075 | 14.264 | 14.371 | | |
| Ps 237-245 | 14.540 | 14.539 | 14.539 | 14.540 | 14.538 | 14.315 | 14.132 | 13.986 | 13.966 | | | | | |
| Pfw = 14.082 | L = .0130 | Peb = 13.848 | Ptc/Pew = 1.068 | Wc = 1.29 | T = 88. | B = 29.87 | | | | | | | | |

Run 27-8 C1 I1 S1 B1 Env 2 0-0° β -4° m/m²-4.54° 0.504

Pt/Pto 131-144

1.000 1.000 .999 .995 .989 .984 1.000 1.000 1.000 .997 .991 .985 .976 .973

Cp 330-344

~~.991~~ -.169 -.458 -.355 -.129 .465 -.140 -.480 -.629 -.540 -.420 -.165 -.117 -.059

Pt/Pto 101-130

.988 .989 .983 .978 1.001 1.001 1.001 1.001 1.000 .986
1.001 1.001 1.001 1.001 .996 1.001 1.001 1.001 1.001
1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Ptc = 15.052 Ptc/Pto = .998 K = .0226

Cp 310-320

.700 ~~.396~~ .097 -.033 -.104 -.244 -.209 -.184 -.174 -.135 -.096

Cp 321-329

.990 .732 .413 .252 .198 .052 -.043 -.057 -.109

Ps 301-309 13.780 13.559 13.838 13.947 14.008 14.085 14.170 14.205 14.226

Ps 201-206 14.145 14.171 14.200 14.161 14.004 14.029

Ps 207-212 13.878 13.904 13.919 13.912 13.887 13.850

Ps 213-224 15.024 14.103 13.746 13.499 13.511 13.664 13.861 13.901 13.909 14.300 ~~14.314~~ 14.288

Ps 225-236 14.891 ~~14.107~~ 13.308 13.097 13.074 13.233 13.611 13.645 13.695 14.097 14.294 14.412

Ps 237-245 14.535 14.536 14.536 14.536 14.277 14.169 14.025 14.005

Pcv = 14.118 L = .0130 Feb = 13.892 Ptc/Pcv = 1.066 Wc = 1.27 T = 88. B = 29.87

Run 27-9 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=-10^\circ$ $\mu/\mu^* = 1.474$ 0.502

| | | | | | | | | | | | | | | |
|----------------|----------------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|--------|--------|------|------|
| Pt/Pto 131-144 | .999 | .998 | .999 | .995 | .989 | .983 | .999 | 1.000 | .999 | .997 | .990 | .985 | .973 | .971 |
| Cp 330-344 | .995 | .997 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 |
| Pt/Pto 101-130 | .987 | .973 | .985 | .985 | 1.001 | 1.001 | 1.001 | .981 | .992 | .988 | | | | |
| | 1.001 | 1.001 | 1.001 | .989 | .993 | .988 | 1.001 | 1.001 | 1.001 | .998 | | | | |
| | .999 | .997 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | | | | |
| Ptc = 15.017 | Ptc/Pto = .996 | K = .0278 | | | | | | | | | | | | |
| Cp 310-320 | .685 | .685 | .082 | -.048 | -.123 | -.274 | -.274 | -.274 | -.257 | -.254 | -.206 | -.171 | | |
| Cp 321-329 | .991 | .964 | .741 | .546 | .462 | .261 | .082 | .020 | -.068 | | | | | |
| Ps 301-309 | 13.332 | 13.294 | 13.554 | 13.693 | 13.795 | 14.001 | 14.100 | 14.120 | 14.156 | | | | | |
| Ps 201-206 | 14.094 | 14.127 | 14.139 | 14.110 | 13.945 | 13.967 | | | | | | | | |
| Ps 207-212 | 13.810 | 13.836 | 13.857 | 13.846 | 13.820 | 13.782 | | | | | | | | |
| Ps 213-224 | 14.947 | 13.921 | 13.548 | 13.300 | 13.327 | 13.541 | 13.743 | 13.790 | 13.810 | 14.237 | 14.278 | 14.233 | | |
| Ps 225-236 | 14.406 | 13.362 | 12.669 | 12.634 | 12.787 | 13.098 | 13.304 | 13.441 | 13.550 | 13.985 | 14.174 | 14.285 | | |
| Ps 237-245 | 14.501 | 14.500 | 14.502 | 14.501 | 14.502 | 14.227 | 14.109 | 13.951 | 13.933 | | | | | |
| Ptcv = 14.064 | L = .0129 | Pcb = 13.825 | Ptc/Pcv = 1.068 | Wc = 1.28 | T = 90. | B = 29.87 | | | | | | | | |

Run 27-11 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=4^\circ$ $m/m^* = .474$ 0.510, 0.504

Pt/Pto 131-144

1.000 1.000 .999 .994 .988 .984 1.000 1.000 .999 .996 .989 .984 .977 .973

Cp 330-344

-.068 -.342 -.567 -.413 -.183 .471 -.128 -.475 -.628 -.537 -.418 -.154 -.143 -.136 -.074

Pt/Pto 101-130

.991 .996 .995 .987 1.000 1.001 1.001 1.001 1.000 .999
1.000 1.001 1.001 1.000 1.000 1.000 1.001 1.000 1.000
1.000 1.000 1.001 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 15.073 Ptc/Pto = .999 K = .0143

Cp 310-320

.627 ~~.438~~ .035 .089 -.157 -.279 -.205 -.164 -.191 -.135 -.097

Cp 321-329

.390 .057 -.230 -.256 -.241 -.267 -.238 -.182 -.175

Ps 301-309 14.792 14.061 14.171 14.211 14.222 14.185 14.233 14.264 14.288

Ps 201-206 14.201 14.219 14.250 14.221 14.073 14.095

Ps 207-212 13.952 13.975 13.991 13.984 13.961 13.926

Ps 213-224 15.070 14.314 13.989 13.759 13.748 13.868 14.004 14.037 14.030 14.350 ~~14.342~~ 14.336

Ps 225-236 15.023 14.821 14.171 13.876 13.671 13.781 13.832 13.897 13.911 14.187 14.361 14.493

Ps 237-245 14.537 14.537 14.538 14.538 14.384 14.221 14.092 14.072

Pev = 14.177 L = .0117 Pev = 13.965 Ptc/Pev = 1.063 We = 1.25 T = 91. B = 29.87

Run 27-13 C1 IL S1 HL Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ $\square/\square^*=0.498$ 0.507, 0.508

| | |
|--------|---|
| Pt/Pto | 131-144 |
| 1.000 | 1.000 .998 .992 .986 .983 .999 .999 .996 .991 .983 .976 .975 .971 |

CP 330-344

| | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -.091 | -.537 | -.705 | -.494 | -.250 | .380 | -.234 | -.580 | -.712 | -.601 | -.470 | -.201 | -.208 | -.192 | -.140 |
|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

[illegible]

$Ptc = 15.068$ $Ptc/Pto = .999$ $K = .0143$

Cp 310-320
.420

| | | | | | | | | | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | - .149 | - .240 | - .297 | - .390 | - .255 | - .203 | - .235 | - .173 | - .127 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|

CP 321-329
--.164 --.410 --.586 --.502 --.444 --.393 --.297 --.191 --.184

Ps 301-309 14.845 14.154 14.237 14.261 14.258 14.183 14.203 14.232 14.257

Pa 201-206 14.172 14.189 14.223 14.198 14.047 14.067

Pa 207-212 13.920 13.944 13.960 13.952 13.930 13.892

| | | | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 213-224 | 15.063 | 14.440 | 14.120 | 13.871 | 13.828 | 13.945 | 14.011 | 14.052 | 14.037 | 14.326 | 14.312 |
| Pa 213-224 | 15.063 | 14.440 | 14.120 | 13.871 | 13.828 | 13.945 | 14.011 | 14.052 | 14.037 | 14.326 | 14.312 |

| | | | | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa | 225-236 | 14.834 | 15.007 | 14.481 | 14.168 | 13.900 | 13.941 | 13.965 | 13.958 | 13.953 | 14.186 | 14.351 | 14.491 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 237-245 | 14.502 | 14.503 | 14.503 | 14.503 | 14.503 | 14.354 | 14.193 | 14.062 | 14.045 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

$P_{cv} = 14.149$ $L = .0116$ $P_{cb} = 13.933$ $P_{tc}/P_{cv} = 1.065$ $W_c = 1.26$ $T = 92.$ $B = 29.86$

[illegible]

| | | | | | | | | | | | | | | | |
|--|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | .089 | -.379 | -.604 | -.421 | -.171 | .427 | -.214 | -.562 | -.698 | -.583 | -.447 | -.164 | -.153 | -.141 | -.073 |
|--|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

| | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| .991 | .994 | .993 | .981 | 1.000 | 1.001 | 1.001 | 1.000 | .994 |
| 1.000 | 1.001 | 1.001 | 1.001 | 1.001 | 1.000 | 1.001 | 1.001 | 1.001 |
| 1.001 | 1.000 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 |

| | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| .513 | -.073 | -.178 | -.234 | -.335 | -.226 | -.169 | -.189 | -.125 | -.077 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

| | | | | | | | | |
|------|------|--------|--------|--------|--------|--------|--------|--------|
| .565 | .218 | --.068 | --.138 | --.136 | --.189 | --.188 | --.153 | --.162 |
|------|------|--------|--------|--------|--------|--------|--------|--------|

Pr 201-206 14.167 14.187 14.220 14.187 14.037 14.059

| | | | | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|
| Pa 213-224 | 15.075 | 14.378 | 14.035 | 13.771 | 13.738 | 13.866 | 13.960 | 14.008 | 14.001 | 14.322 | 14.338 | 14.308 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|

Pa 237-245 14.517 14.517 14.518 14.518 14.357 14.185 14.056 14.036

Pev = 14.143 L = .0122 Pcb = 13.925 Ptc/Pcv = 1.065 Wc = 1.26 T = 92. B = 29.86

Run 27-15 C1 I1 S1 E1 Eng 2 $\alpha=4^\circ$ $\beta=4^\circ$ $m/m^* = .474$ 0.504

Pt/Pto 131-144
1.000 .999 .997 .992 .986 .982 1.000 1.000 .998 .994 .988 .983 .975 .972

Cp 330-344
-236 -236 -.522 -.394 -.147 .423 -.224 -.563 -.694 -.580 -.444 -.167 -.151 -.123 -.056

Pt/Pto 101-130
.984 .979 1.001 1.001 1.001 1.001 1.000 .984
.990 .989 1.001 1.001 .989 1.001 1.001 1.001
1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001
1.001 1.000 1.001 1.001 1.001 1.001 1.001 1.001

Ptc = 15.047 Ptc/Pto = .998 K = .0226

Cp 310-320
.570 .482 -.032 -.140 -.199 -.319 -.244 -.202 -.148 -.100

Cp 321-329
1.011 .807 .498 .322 .260 .094 -.029 -.068 -.139

Ps 301-309 13.438 13.489 13.797 13.919 13.982 14.083 14.167 14.200 14.222

Ps 201-206 14.144 14.169 14.199 14.161 14.006 14.029

Ps 207-212 13.879 13.905 13.921 13.913 13.889 13.851

Ps 213-224 15.050 14.211 13.838 13.561 13.546 13.703 13.865 13.908 13.913 14.298 ~~14.324~~ 14.286

Ps 225-236 14.816 ~~13.977~~ 13.198 13.014 13.025 13.171 13.589 13.629 13.685 14.096 14.289 14.404

Ps 237-245 14.521 14.521 14.522 14.522 14.522 14.275 14.170 14.023 14.003

Pev = 14.118 L = .0128 Pev = 13.893 Ptc/Pev = 1.066 Wc = 1.27 T = 92. B = 29.86

Run 27-16 C1 I1 S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=-10^\circ$ $m/m^* = 1.047$ 0.506

| | | | | | | | | | | | | | | |
|----------------|----------------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|--------|--------|------|------|
| Pt/Pto 131-144 | .999 | .998 | .997 | .992 | .987 | .982 | .999 | 1.000 | .999 | .995 | .988 | .983 | .973 | .970 |
| Cp 330-344 | .999 | .998 | .997 | .992 | .987 | .982 | .999 | 1.000 | .999 | .995 | .988 | .983 | .973 | .970 |
| Cp 330-344 | .999 | .998 | .997 | .992 | .987 | .982 | .999 | 1.000 | .999 | .995 | .988 | .983 | .973 | .970 |
| Cp 330-344 | .999 | .998 | .997 | .992 | .987 | .982 | .999 | 1.000 | .999 | .995 | .988 | .983 | .973 | .970 |
| Cp 330-344 | .999 | .998 | .997 | .992 | .987 | .982 | .999 | 1.000 | .999 | .995 | .988 | .983 | .973 | .970 |
| Pt/Pto 101-130 | .987 | .969 | .982 | .984 | 1.001 | 1.001 | 1.001 | .975 | .990 | .986 | | | | |
| Pt/Pto 101-130 | .987 | .969 | .982 | .984 | 1.001 | 1.001 | 1.001 | .975 | .990 | .986 | | | | |
| Pt/Pto 101-130 | .987 | .969 | .982 | .984 | 1.001 | 1.001 | 1.001 | .975 | .990 | .986 | | | | |
| Pt/Pto 101-130 | .987 | .969 | .982 | .984 | 1.001 | 1.001 | 1.001 | .975 | .990 | .986 | | | | |
| Pt/Pto 101-130 | .987 | .969 | .982 | .984 | 1.001 | 1.001 | 1.001 | .975 | .990 | .986 | | | | |
| Ptc = 14.990 | Ptc/Pto = .994 | K = .0322 | | | | | | | | | | | | |
| Cp 310-320 | .548 | .486 | -.039 | -.163 | -.228 | -.359 | -.325 | -.311 | -.288 | -.233 | -.194 | | | |
| Cp 321-329 | .955 | .977 | .775 | .583 | .494 | .278 | .069 | -.016 | -.123 | | | | | |
| Pa 301-309 | 13.075 | 13.301 | 13.509 | 13.629 | 13.733 | 13.965 | 14.063 | 14.088 | 14.133 | | | | | |
| Pa 201-206 | 14.070 | 14.107 | 14.123 | 14.091 | 13.923 | 13.944 | | | | | | | | |
| Pa 207-212 | 13.785 | 13.813 | 13.836 | 13.822 | 13.794 | 13.758 | | | | | | | | |
| Pa 213-224 | 14.982 | 14.033 | 13.641 | 13.353 | 13.352 | 13.537 | 13.735 | 13.777 | 13.790 | 14.207 | 14.244 | 14.210 | | |
| Pa 225-236 | 14.272 | 13.828 | 12.622 | 12.657 | 12.781 | 13.059 | 13.245 | 13.370 | 13.478 | 13.939 | 14.138 | 14.251 | | |
| Pa 237-245 | 14.483 | 14.482 | 14.484 | 14.485 | 14.484 | 14.201 | 14.076 | 13.917 | 13.904 | | | | | |
| Pcv = 14.043 | L = .0133 | Feb = 13.801 | Ptc/Pcv = 1.067 | He = 1.27 | T = 92. | B = 29.86 | | | | | | | | |

Run 27-17 C1 D1 S1 H1 Eng 2 $\alpha = -4^\circ$ $\beta = -10^\circ$ $\mu/\mu^* = 1.074$ 0.507

Pt/Pto 131-144

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 016° | 986° | 992° | 998° | 666° | 666° | 596° | 991° | 166° | 666° | 999° | 666° |
| 475° | 986° | 992° | 998° | 666° | 666° | 596° | 991° | 166° | 666° | 999° | 666° |

CP 330-344

| | | | | | | | | | | | | | | |
|-----|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 265 | -.014 | -.341 | -.302 | -.112 | .452 | -.092 | -.414 | -.568 | -.506 | -.404 | -.193 | -.212 | -.114 | -.084 |
|-----|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

Pt/Pto 101-130

| | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| .989 | .977 | .986 | .985 | 1.000 | 1.000 | .990 | .988 |
| 1.000 | 1.000 | 1.000 | .996 | .995 | 1.000 | 1.000 | 1.000 |
| .999 | .999 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

$P_{TC} = 15.021$ $P_{TC}/P_{TO} = .996$ $K = .0234$

CP 310-320

| | | | | | | | | | |
|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| .777 | .203 | .064 | -.018 | -.184 | -.217 | -.206 | -.195 | -.170 | -.143 |
|------|------|------|-------|-------|-------|-------|-------|-------|-------|

Cp 321-329

| | | | | | | | | |
|-------|------|------|------|------|------|------|------|-------|
| 1.021 | .927 | .680 | .498 | .420 | .234 | .083 | .040 | -.040 |
|-------|------|------|------|------|------|------|------|-------|

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 301-309 | 13.429 | 13.260 | 13.597 | 13.757 | 13.857 | 14.040 | 14.125 | 14.158 | 14.188 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Pa 201-206 14.122 14.154 14.165 14.139 13.981 13.998

Pa 207-212 13.849 13.874 13.892 13.882 13.858 13.822

| | | | | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|
| Pa 213-224 | 14.887 | 13.817 | 13.469 | 13.264 | 13.318 | 13.586 | 13.761 | 13.812 | 13.838 | 14.266 | 14.280 | 14.260 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|

Pa 225-236 14.520 13.517 12.766 12.673 12.821 13.021 13.380 13.511 13.611 14.036 14.217 14.320

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 237-245 | 14.504 | 14.505 | 14.502 | 14.506 | 14.506 | 14.259 | 14.145 | 13.988 | 13.970 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

$P_{ev} = 14.093$ $L = .0122$ $P_{eb} = 13.863$ $P_{tc}/P_{ev} = 1.066$ $W_c = 1.26$ $T = 93.$ $B = 29.86$

Run 27-18 C1 I1 S1 B1 Eng 2 $\alpha = 4^\circ$ $\beta = 4^\circ$ $m/m^* = 1.474$ 0.508

Pt/Pto 131-144

1.000 1.000 1.000 .997 .991 .986 1.000 1.000 1.000 .999 .993 .987 .978 .973

Cp 330-344

~~.969~~ -.102 -.392 -.312 -.106 .510 -.051 -.388 -.551 -.485 -.381 -.147 -.155 -.095 -.050

Pt/Pto 101-130

.988 .989 .982 .981 1.001 1.001 1.001 1.001 1.000 .989
1.000 1.000 1.001 1.000 .998 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 15.047 Ptc/Pto = .998 K = .0202

Cp 310-320

.790 ~~.589~~ .210 .074 -.006 -.163 -.166 -.148 -.144 -.116 -.086

Cp 321-329

.923 .634 .314 .171 .125 .001 -.072 -.065 -.114

Ps 301-309 14.280 13.658 13.906 14.001 14.048 14.104 14.191 14.226 14.245

Ps 201-206 14.171 14.195 14.224 14.189 14.036 14.057

Ps 207-212 13.913 13.936 13.952 13.946 13.921 13.885

Ps 213-224 14.976 14.008 13.675 13.469 13.506 13.659 13.880 13.917 13.932 14.319 ~~14.325~~ 14.308

Ps 225-236 14.950 ~~14.294~~ 13.452 13.220 13.170 ~~13.325~~ 13.669 13.694 13.739 14.126 14.316 14.433

Ps 237-245 14.538 14.539 14.539 14.539 14.300 14.199 14.052 14.033

Pcv = 14.145 L = .0125 Pcb = 13.925 Ptc/Pcv = 1.064 Wc = 1.25 T = 93. B = 29.86

Run 27-19 C1 I1 S1 E1 Eng 2 $\alpha = 4^\circ$ $\beta = 4^\circ$ $\gamma = 4^\circ$ 0.507

Pt/Pto 131-144

1.000 1.000 1.000 .997 .991 .986 1.000 1.000 1.000 .999 .993 .987 .979 .973

Cp 330-344

~~.051~~ .306 -.532 -.404 -.201 .515 -.041 -.385 -.550 -.485 -.381 -.144 -.152 -.132 -.091

Pt/Pto 101-130

.989 .996 .997 .987 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 15.062 Ptc/Pto = .999 K = .0135

Cp 310-320

.757 ~~.530~~ .153 .022 -.057 -.204 -.176 -.146 -.183 -.138 -.112

Cp 321-329

.250 -.089 -.344 -.363 -.337 -.345 -.298 -.228 -.212

Ps 301-309 14.833 14.053 14.170 14.203 14.212 14.159 14.201 14.230 14.248

Ps 201-206 14.168 14.188 14.221 14.193 14.041 14.059

Ps 207-212 13.914 13.937 13.954 13.948 13.923 13.887

Ps 213-224 15.017 14.165 13.854 13.654 13.672 13.780 13.972 13.994 13.989 14.323 ~~14.392~~ 14.308

Ps 225-236 14.989 14.857 14.208 13.894 13.667 13.772 13.822 13.860 13.880 14.158 14.336 14.473

Ps 237-245 14.535 14.536 14.536 14.536 14.536 14.357 14.193 14.057 14.037

Ptcv = 14.145 L = .0119 Ptc = 13.927 Ptc/Ptcv = 1.065 Wc = 1.26 T = 93. B = 29.86

Run 27-20 C1 I1 S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ $m/m^*=.474$ 0.503

Pt/Pto 131-144

1.000 1.000 1.000 .997 .990 .986 .999 .999 .999 .997 .990 .983 .975 .971

Cp 330-344

~~.163~~ -.512 -.682 -.524 -.334 .473 -.064 -.401 -.566 -.503 -.403 -.179 -.197 -.201 -.170

Pt/Pto 101-130

.992 .998 1.000 .990 .992 .999 1.001 1.001 1.001 1.000 1.000
1.001 1.001 1.000 1.001 1.000 1.000 1.001 1.001 1.000 1.000
1.000 1.000 1.000 1.001 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 15.071 Ptc/Pto = .999 K = .0116

Cp 310-320

.674 ~~.550~~ .681 -.062 -.144 -.283 -.234 -.208 -.256 -.221 -.206

Cp 321-329

-.609 -.797 -.903 -.786 -.696 -.593 -.453 -.312 -.265

Pb 301-309 14.940 14.206 14.285 14.302 14.289 14.195 14.192 14.225 14.248

Pb 201-206 14.158 14.174 14.211 14.186 14.034 14.050

Pb 207-212 13.902 13.926 13.942 13.936 13.911 13.875

Pb 213-224 15.010 14.238 13.944 13.755 13.762 13.854 14.022 14.028 14.013 14.317 ~~14.349~~ 14.301

Pb 225-236 14.626 ~~15.057~~ 14.605 14.280 13.980 13.995 14.000 13.977 13.966 14.158 14.345 14.487

Pb 237-245 14.519 14.519 14.520 14.520 14.520 14.337 14.180 14.049 14.029

Pcv = 14.135 L = .0118 Pcb = 13.915 Ptc/Pcv = 1.066 Wc = 1.27 T = 94. B = 29.86

Run 28-1 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $\frac{m}{m^*}=.620$ $D=.656$

Pt/Pto 131-144

| | | | | | | | | | | | | |
|-------|-------|------|------|------|------|-------|------|------|------|------|------|------|
| 1.000 | 1.000 | .999 | .994 | .988 | .983 | 1.000 | .999 | .996 | .989 | .983 | .973 | .972 |
|-------|-------|------|------|------|------|-------|------|------|------|------|------|------|

CP 330-344

| | | | | | | | | | | | | | | |
|------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -.165 | -.265 | -.530 | -.407 | -.199 | .470 | -.145 | -.497 | -.660 | -.578 | -.468 | -.274 | -.421 | -.219 | -.276 |
|------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

Pt/Pto 101-130

| | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.000 | .980 | .984 | .974 | .965 | 1.000 | 1.001 | 1.001 | 1.000 | .978 |
| 1.000 | 1.000 | 1.000 | 1.001 | 1.001 | 1.000 | .983 | 1.000 | 1.001 | 1.001 |
| 1.000 | .998 | .998 | 1.000 | 1.001 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

Ptc = 15.014 Ptc/Pto = .996 K = .0359

CP 310-320

| | | | | | | | | | | |
|------|-----------------|------|------|------|-------|-------|-------|-------|-------|-------|
| .968 | .772 | .359 | .166 | .057 | -.135 | -.161 | -.143 | -.146 | -.115 | -.081 |
|------|-----------------|------|------|------|-------|-------|-------|-------|-------|-------|

CP 321-329

| | | | | | | | | |
|------|------|------|------|------|--------|--------|--------|--------|
| .993 | .721 | .364 | .185 | .129 | --.013 | --.092 | --.089 | --.132 |
|------|------|------|------|------|--------|--------|--------|--------|

| | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Fr 301-309 | 13.048 | 12.360 | 13.146 | 13.263 | 13.330 | 13.442 | 13.493 | 13.532 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|

Pa 201-206 13.377 13.421 13.483 13.417 13.148 13.178

| | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|
| Pa | 207-212 | 12.896 | 12.944 | 12.976 | 12.958 | 12.907 | 12.843 |
|----|---------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|
| Fe | 213-224 | 14.685 | 13.095 | 12.603 | 12.272 | 12.313 | 12.750 | 12.938 | 12.995 | 13.005 | 13.673 | 13.730 | 13.644 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|

| | | | | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Fe | 225-236 | 14.734 | 13.680 | 12.377 | 11.952 | 11.795 | 12.049 | 12.599 | 12.630 | 12.693 | 13.344 | 13.681 | 13.903 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Fe 237-245 | 14.337 | 14.337 | 14.338 | 14.339 | 14.338 | 13.735 | 13.438 | 13.182 | 13.148 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

$P_{ev} = 13.337$ $L = .0223$ $P_{eb} = 12.921$ $P_{tc}/P_{ev} = 1.126$ $W_c = 1.65$ $T = 94.$ $B = 29.86$

Run 28-3 C1 I1 S1 B1 Eng 2 $\alpha = -4^\circ$ $\beta = 0^\circ$ $m/m^* = .610$ 0.656

Pt/Pto 131-144

1.000 1.000 1.000 .997 .990 .985 1.000 1.000 1.000 .999 .992 .985 .973 .972

Cp 330-344

~~.966~~ -.210 -.480 -.380 -.193 .514 -.060 -.408 -.584 -.525 -.430 -.257 -.417 -.204 -.277

Pt/Pto 101-130

.979 .984 .973 .961 1.000 1.000 1.000 1.000 1.000 .981
1.000 1.000 1.000 1.000 .992 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 15.014 Ptc/Pto = .996 K = .0394

Cp 310-320

.987 ~~.967~~ .449 .255 .139 -.066 -.130 -.118 -.132 -.109 -.084

Cp 321-329

.940 .629 .262 .092 .044 -.080 -.137 -.117 -.142

Ps 301-309 13.621 12.482 13.063 13.262 13.337 13.361 13.464 13.524 13.557

Ps 201-206 13.402 13.445 13.507 13.443 13.178 13.204

Ps 207-212 12.931 12.976 13.008 12.991 12.940 12.875

Ps 213-224 14.581 12.966 12.506 12.230 12.302 12.770 12.957 13.020 13.033 13.695 ~~13.723~~ 13.667

Ps 225-236 14.814 13.776 12.543 12.098 11.911 12.153 12.660 12.686 12.744 13.370 13.704 13.927

Ps 237-245 14.350 14.350 14.353 14.354 14.352 13.758 13.462 13.211 13.177

Pew = 13.363 L = .0219 Peb = 12.954 Ptc/Pew = 1.124 We = 1.64 T = 93. B = 29.86

Run 28-4 C1 I1 S1 H1 Eng 2 $\alpha=10^\circ$ $\beta=0^\circ$ $m/m^*=5.10$ 0.653, 0.649

Pt/Pto 131-144

1.000 1.000 1.000 .999 .994 .988 1.000 1.000 1.000 1.000 .996 .989 .975 .972

Cp 330-344

~~155~~ --123 --.383 --.324 --.179 .587 .090 --.244 --.435 --.414 --.345 --.223 --.430 --.171 --.282

Pt/Pto 101-130

.978 .984 .976 .965 1.000 1.000 1.000 1.000 1.000 1.000 .989
1.000 1.000 1.001 1.000 1.000 .999 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 15.026 Ptc/Pto = .997 K = .0352

Cp 310-320

1.012 ~~574~~ .577 .418 .297 .070 --.053 --.057 --.089 --.082 --.072

Cp 321-329

.860 .490 .119 --.045 --.081 --.188 --.223 --.186 --.183

Ps 301-309 14.101 12.672 13.184 13.335 13.385 13.367 13.461 13.517 13.551

Ps 201-206 13.398 13.442 13.501 13.443 13.174 13.199

Ps 207-212 12.926 12.971 13.003 12.985 12.936 12.870

Ps 213-224 14.306 12.636 12.239 12.066 12.182 12.772 12.926 12.995 13.015 13.689 ~~13.729~~ 13.659

Ps 225-236 14.864 ~~13.936~~ 12.683 12.205 11.978 ~~12.215~~ 12.672 12.700 12.752 13.369 13.702 13.928

Ps 237-245 14.360 14.358 14.362 14.361 14.361 13.753 13.457 13.206 13.171

Pev = 13.359 L = .0217 Peb = 12.949 Ptc/Pev = 1.125 We = 1.64 T = 93. B = 29.86

Run 28-6 C1 I1 S1 B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $\pi/\mu^*=620$ 0.654

Pt/Pto 131-144

1.000 1.000 1.000 1.000 .998 .993 1.000 1.000 1.000 1.000 1.000 .993 .981 .972

Cp 330-344

~~.180~~ .011 -.204 -.206 -.134 .728 .353 .060 -.141 -.173 -.147 -.110 -.385 -.067 -.232

Pt/Pto 101-130

.974 .984 .986 .978 1.001 1.001 1.001 1.001 1.001 1.001 1.000 1.000 1.000
1.000 1.001 1.001 1.000 1.000 1.000 1.001 1.001 1.001 1.001
1.000 1.000 1.001 1.000 1.000 1.000 1.000 1.001 1.001 1.000

Ptc = 15.049 Ptc/Pto = .998 K = .0273

Cp 310-320

.903 ~~.680~~ .876 .673 .552 .317 .109 .083 .022 .006 -.015

Cp 321-329

.697 .295 -.089 -.271 -.292 -.379 -.408 -.343 -.310

Ps 301-309 14.442 12.979 13.369 13.472 13.498 13.425 13.496 13.556 13.599

Ps 201-206 13.429 13.470 13.531 13.480 13.208 13.233

Ps 207-212 12.963 13.009 13.041 13.024 12.974 12.910

Ps 213-224 13.726 12.076 11.822 11.833 12.015 12.772 12.907 12.995 13.026 13.716 ~~13.762~~ 13.683

Ps 225-236 14.911 ~~14.734~~ 12.912 12.404 12.120 ~~12.375~~ 12.727 12.766 12.808 13.404 13.733 13.961

Ps 237-245 14.397 14.397 14.398 14.400 14.398 13.781 13.485 13.239 13.204

Pev = 13.392 L = .0214 Pev = 12.987 Ptc/Pev = 1.124 We = 1.64 T = 93. B = 29.87

| | |
|--------|---|
| Pt/Pto | 131-144 |
| 1.000 | .999 .997 .992 .986 .982 1.000 1.000 .997 .993 .987 .981 .972 .972 |
| Cp | 330-344 |
| .469 | -.304 -.574 -.423 -.194 .434 -.219 -.574 -.717 -.612 -.485 -.267 -.398 -.214 -.255 |
| Pt/Pto | 101-130 |
| .981 | .985 .978 .966 1.000 1.000 1.001 1.000 1.000 .974 |
| 1.000 | 1.000 1.000 1.000 .976 1.000 1.000 1.000 1.000 |
| 1.000 | .994 1.000 1.000 1.000 1.000 1.000 1.000 1.000 |
| Ptc = | 15.013 Ptc/Pto = .995 K = .0346 |
| Cp | 310-320 |
| .909 | .614 .250 .076 -.020 -.193 -.180 -.155 -.148 -.110 -.065 |
| Cp | 321-329 |
| 1.020 | .802 .458 .278 .212 .052 -.052 -.073 -.129 |
| Ps | 301-309 |
| | 12.756 12.318 12.831 13.088 13.229 13.355 13.454 13.517 13.557 |
| Ps | 201-206 |
| | 13.398 13.442 13.508 13.444 13.179 13.202 |
| Ps | 207-212 |
| | 12.928 12.972 13.005 12.987 12.938 12.873 |
| Ps | 213-224 |
| | 14.805 13.284 12.766 12.387 12.395 12.787 12.977 13.030 13.036 13.692 13.729 13.666 |
| Ps | 225-236 |
| | 14.661 13.486 12.270 11.876 11.762 12.012 12.603 12.640 12.707 13.362 13.698 13.916 |
| Ps | 237-245 |
| | 14.338 14.338 14.338 14.340 14.339 13.756 13.458 13.206 13.173 |
| Pcv = | 13.362 L = .0219 Pcb = 12.950 Ptc/Pcv = 1.124 Wc = 1.63 T = 95. B = 29.87 |

Run 28-8 C1 I1 S1 B1 Eng 2 $\alpha=10^\circ$ $\beta=0^\circ$ $m/m^* = 640$ 0.651

Pt/Pto 131-144

.999 .997 .992 .987 .983 .979 .998 .997 .992 .988 .983 .978 .972 .971

Cp 330-344

~~.955~~ -.374 -.632 -.448 -.198 .378 -.323 -.673 -.786 -.647 -.497 -.257 -.386 -.208 -.244

Pt/Pto 101-130

.983 .984 .980 .964 1.001 1.001 1.001 1.001 1.001 1.001 .971
1.001 1.001 1.001 1.001 .972 1.001 1.001 1.001 1.001 1.001
1.001 .987 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Ptc = 15.014 Ptc/Pto = .995 X = .0368

Cp 310-320

.802 ~~.621~~ .112 -.039 -.122 -.267 -.199 -.165 -.149 -.095 -.046

Cp 321-329

1.025 .899 .591 .401 .321 .130 -.025 -.077 -.170

Ps 301-309 12.591 12.224 12.681 12.971 13.156 13.343 13.442 13.503 13.542

Ps 201-206 13.382 13.425 13.493 13.429 13.167 13.186

Ps 207-212 12.910 12.953 12.986 12.967 12.920 12.854

Ps 213-224 14.913 13.473 12.916 12.473 12.436 12.752 12.975 13.023 13.023 13.679 ~~13.715~~ 13.654

Ps 225-236 14.464 ~~13.493~~ 11.995 11.655 11.615 11.870 12.536 12.585 12.663 13.341 13.681 13.893

Ps 237-245 14.332 14.332 14.333 14.333 14.333 13.743 13.443 13.189 13.156

Pev = 13.347 L = .0217 Peb = 12.932 Ptc/Pev = 1.125 Wc = 1.64 T = 95. B = 29.87

Run 28-9 C1 I1 S1 B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $\mu/\mu^*=0.628$ 0.653

Pt/Pto 131-144

.998 .994 .989 .985 .981 .979 .997 .995 .990 .987 .982 .977 .971 .970

Cp 330-344

~~.997~~ .460 -.673 -.449 -.203 .314 -.430 -.748 -.809 -.623 -.452 -.208 -.370 -.172 -.238

Pt/Pto 101-130

.985 .983 .957 .958 1.001 1.001 1.001 1.000 .974 .971
1.001 1.001 1.001 1.001 .989 .982 1.001 1.001 1.001
.999 .994 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Ptc = 14.989 Ptc/Pto = .994 K = .0447

Cp 310-320

.639 ~~.627~~ -.027 -.152 -.210 -.310 -.173 -.113 -.110 -.053 -.030

Cp 321-329

.901 .965 .753 .557 .465 .240 -.002 -.103 -.220

Ps 301-309 12.587 12.172 12.327 12.588 12.850 13.308 13.413 13.476 13.512

Ps 201-206 13.353 13.396 13.454 13.401 13.133 13.153

Ps 207-212 12.872 12.917 12.947 12.929 12.880 12.817

Ps 213-224 14.998 13.673 13.079 12.562 12.470 12.728 12.959 13.007 12.999 13.653 ~~13.693~~ 13.629

Ps 225-236 13.995 ~~12.605~~ 11.505 11.291 11.385 ~~11.688~~ 12.431 12.504 12.609 13.325 13.635 13.814

Ps 237-245 14.336 14.337 14.336 14.338 14.336 13.721 13.412 13.152 13.121

Pev = 13.315 L = .0214 Peb = 12.894 Ptc/Pev = 1.126 Wc = 1.64 T = 95. B = 29.87

Run 28-10 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=-4^\circ$ $m/m^* = 620$ 0.655

k k kkkk k999 k999 k988 k983 1.000 1.000 1.000 .997 .990 .984 .972 .972

Cp 330-344

~~660~~ -.177 -.479 -.383 -.180 .463 -.150 -.497 -.655 -.575 -.464 -.273 -.422 -.207 -.269

Pt/Pto 101-130

.978 .980 .970 1.000 1.001 1.000 .986 .981
1.001 1.001 1.001 1.000 .982 1.001 1.001 1.001
1.001 .996 1.001 1.000 1.001 1.001 1.001 1.001

Ptc = 15.012 Ptc/Pto = .995 K = .0315

Cp 310-320

~~645~~ .950 .361 .167 .060 -.132 -.173 -.157 -.152 -.124 -.088

Cp 321-329

1.026 .903 .608 .405 .325 .139 .004 -.026 -.090

Ps 301-309 12.594 12.138 12.657 12.954 13.147 13.354 13.459 13.514 13.563

Ps 201-206 13.410 13.455 13.501 13.455 13.193 13.213

Ps 207-212 12.941 12.986 13.017 13.000 12.950 12.887

Ps 213-224 14.652 13.017 12.516 12.183 12.226 12.720 12.905 12.981 13.002 13.698 ~~13.710~~ 13.671

Ps 225-236 14.414 ~~13.078~~ 11.845 11.505 11.499 ~~11.744~~ 12.485 12.556 12.655 13.364 13.686 13.866

Ps 237-245 14.342 14.342 14.343 14.344 14.343 13.659 13.470 13.212 13.178

Pcv = 13.371 L = .0205 Pcb = 12.964 Ptc/Pcv = 1.123 Wc = 1.63 T = 95. B = 29.87

Run 28-11 C1 I1 S1 E1 Eng 2 $\alpha=0^\circ$ $\beta=-10^\circ$ $m/m^* = .640$ 0.652

Pt/Pto 131-144
 .999 .998 .999 .996 .989 .983 .999 1.000 1.000 .998 .991 .984 .972 .970
 Cp 330-344
 .337 -.109 -.452 -.401 -.221 .406 -.189 -.522 -.672 -.596 -.489 -.327 -.518 -.245 -.349

Pt/Pto 101-130
 .975 .945 .975 .973 1.000 1.000 1.000 .957 .982 .980
 1.000 1.000 1.000 .968 .982 .980 1.000 1.000 .983
 .990 .994 1.001 1.001 1.001 .999 1.000 1.000 1.001 1.000

Ptc = 14.928 Ptc/Pto = .990 K = .0567

Cp 310-320
 .855 .650 .319 .140 .033 -.169 -.239 -.233 -.232 -.195 -.165

Cp 321-329
 .810 1.020 .862 .668 .569 .341 .127 .052 -.046

Ps 301-309 12.088 11.471 12.100 12.489 12.760 13.141 13.237 13.273 13.347

Ps 201-206 13.219 13.287 13.327 13.275 12.980 13.000

Ps 207-212 12.694 12.750 12.788 12.759 12.708 12.639

Ps 213-224 14.473 12.672 12.131 11.777 11.838 12.455 12.632 12.717 12.746 13.489 13.568 13.485

Ps 225-236 13.624 12.104 11.006 10.958 11.165 11.670 11.964 12.155 12.312 13.014 13.365 13.578

Ps 237-245 14.294 14.294 14.295 14.295 14.294 13.485 13.247 12.955 12.947

Pev = 13.181 L = .0232 Pev = 12.723 Ptc/Pev = 1.132 Wc = 1.67 T = 95. B = 29.87

Run 28-12 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=4^\circ$ m/m² = ~~620~~ 0.651

Pt/Pto 131-144

1.000 1.000 .999 .995 .988 .984 1.000 1.000 .999 .996 .989 .982 .973 .972

Cp 330-344

~~.071~~ -.348 -.590 -.440 -.230 .472 -.140 -.495 -.657 -.577 -.468 -.278 -.447 -.234 -.298

Pt/Pto 101-130

.980 .989 .985 .959 1.000 1.001 1.001 1.000 1.000 .984
1.001 1.001 1.001 1.000 .935 1.000 1.001 1.001 1.001
1.001 1.000 1.001 1.001 1.000 1.000 1.000 1.000 1.001

Ptc = 15.034 Ptc/Pto = .997 K = .0417

Cp 310-320

.974 .662 .349 .158 .049 -.143 -.159 -.137 -.154 -.123 -.088

Cp 321-329

.845 .473 .102 -.032 -.060 -.152 -.175 -.140 -.146

Ps 301-309 13.987 12.686 13.186 13.331 13.381 13.358 13.448 13.509 13.545

Ps 201-206 13.377 13.420 13.489 13.427 13.162 13.179

Ps 207-212 12.903 12.948 12.983 12.964 12.915 12.849

Ps 213-224 14.718 13.179 12.700 12.381 12.411 12.790 13.000 13.046 13.046 13.682 ~~13.688~~ 13.651

Ps 225-236 14.932 ~~14.987~~ 12.874 12.391 12.120 ~~12.359~~ 12.713 12.750 12.786 13.364 13.698 13.933

Ps 237-245 14.326 14.326 14.327 14.328 14.327 13.737 13.438 13.188 13.164

Pcv = 13.342 L = .0218 Peb = 12.927 Ptc/Pcv = 1.127 Wc = 1.65 T = 95. B = 29.87

Run 28-13 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=10^\circ$ $m/m^*=630$ 0.651

Pt/Pto 131-144

1.000 1.000 1.000 .996 .989 .984 .998 .998 .995 .986 .977 .973 .971

Cp 330-344

~~125~~ -.530 -.714 -.533 -.328 .427 -.160 -.511 -.672 -.595 -.491 -.319 -.526 -.292 -.371

Pt/Pto 101-130

.982 .994 .993 .970 .995 1.000 1.001 1.001 1.001 .997
1.000 1.001 1.001 1.001 1.000 1.001 1.001 1.001 1.001
1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Ptc = 15.056 Pt/Pto = .998 K = .0311

Cp 310-320

.933 ~~768~~ .297 .102 -.011 -.200 -.201 -.176 -.230 -.188 -.162

Cp 321-329

.38 -.027 -.354 -.394 -.368 -.371 -.305 -.224 -.188

Ps 301-309 14.438 13.197 13.456 13.525 13.528 13.409 13.458 13.524 13.564

Ps 201-206 13.385 13.422 13.498 13.443 13.174 13.190

Ps 207-212 12.915 12.962 12.994 12.978 12.927 12.860

Ps 213-224 14.728 13.276 12.820 12.527 12.556 12.807 13.089 13.112 13.098 13.693 ~~13.744~~ 13.658

Ps 225-236 14.989 ~~14.600~~ 13.524 12.990 12.579 ~~12.755~~ 12.849 12.915 12.915 13.401 13.724 13.973

Ps 237-245 14.302 14.301 14.303 14.302 13.740 13.445 13.203 13.167

Pcv = 13.352 L = .0215 Pcb = 12.939 Ptc/Pcv = 1.128 Wc = 1.66 T = 95. B = 29.87

| | |
|--------|--|
| Pt/Pto | 131-144 1.000 1.000 .999 .934 .987 .982 .998 .998 .996 .992 .982 .973 .972 .971 |
| Cp | 330-344 .692 -.540 -.724 -.513 -.284 .378 -.245 -.596 -.739 -.637 -.516 -.320 -.515 -.280 -.344 |
| Pt/Pto | 101-130 .984 .993 .992 .960 .997 1.000 1.001 1.001 1.001 .985 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 |
| Ptc = | 15.049 Ptc/Pto = .998 K = .C413 |
| Cp | 310-320 .881 .679 .205 .021 -.030 -.249 -.206 -.171 -.208 -.158 -.120 |
| Cp | 321-329 .536 .128 -.197 -.259 -.248 -.274 -.231 -.176 -.155 |
| Ps | 301-309 14.255 13.072 13.396 13.478 13.494 13.400 13.461 13.524 13.557 |
| Ps | 201-206 13.386 13.422 13.500 13.437 13.176 13.190 |
| Ps | 207-212 12.916 12.961 12.994 12.976 12.928 12.860 |
| Ps | 213-224 14.839 13.440 12.956 12.610 12.605 12.818 13.101 13.122 13.103 13.693 13.723 13.660 |
| Ps | 225-236 14.998 14.588 13.416 12.896 12.513 12.702 12.834 12.895 12.902 13.397 13.723 13.969 |
| Ps | 237-245 14.291 14.291 14.291 14.293 14.290 13.744 13.444 13.202 13.167 |
| Pcw = | 13.352 L = .0215 Pcb = 12.939 Ptc/Pcv = 1.127 Wc = 1.66 T = 95. B = 29.87 |

Run 28-15 C1 I1 S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=4^\circ$ $m/m^*=610$ 0.652

| | | | | | | | | | | | | | | |
|----------------|-----------|-------------------|--------|--------|-----------|-------------------|--------|--------|--------|--------|-------------------|--------|-------|-------|
| Pt/Pto 131-144 | 1.000 | 1.000 | .997 | .992 | .986 | .982 | 1.000 | 1.000 | .997 | .992 | .986 | .979 | .972 | .972 |
| Cp 330-344 | -685 | -.383 | -.622 | -.445 | -.213 | .427 | -.223 | -.577 | -.723 | -.618 | -.493 | -.278 | -.428 | -.231 |
| | | | | | | | | | | | | | | -.274 |
| Pt/Pto 101-130 | .982 | .989 | .986 | .961 | 1.000 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | .973 | | | |
| | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | .983 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | | | |
| | 1.001 | .999 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | | | |
| Ptc = 15.030 | Ptc/Pto = | .996 | K = | .0405 | | | | | | | | | | |
| Cp 310-320 | .914 | -687 | .242 | .065 | -.032 | -.204 | -.176 | -.146 | -.149 | -.110 | -.065 | | | |
| Cp 321-329 | .926 | .583 | .222 | .075 | .036 | -.075 | -.124 | -.109 | -.136 | | | | | |
| Ps 301-309 | 13.428 | 12.540 | 13.064 | 13.263 | 13.342 | 13.366 | 13.456 | 13.519 | 13.550 | | | | | |
| Ps 201-206 | 13.384 | 13.429 | 13.501 | 13.435 | 13.174 | 13.189 | | | | | | | | |
| Ps 207-212 | 12.915 | 12.960 | 12.993 | 12.975 | 12.927 | 12.860 | | | | | | | | |
| Ps 213-224 | 14.835 | 13.361 | 12.853 | 12.481 | 12.479 | 12.783 | 13.026 | 13.064 | 13.059 | 13.688 | 13.722 | 13.658 | | |
| Ps 225-236 | 14.889 | 13.969 | 12.760 | 12.306 | 12.064 | 12.309 | 12.704 | 12.738 | 12.780 | 13.370 | 13.704 | 13.935 | | |
| Ps 237-245 | 14.320 | 14.320 | 14.321 | 14.322 | 14.320 | 13.745 | 13.446 | 13.198 | 13.166 | | | | | |
| Pcv = 13.352 | L = | .0218 | Peb = | 12.938 | Ptc/Pcv = | 1.126 | Wc = | 1.64 | T = | 96. | B = | 29.87 | | |

Run 28-16 Cl II S1 Bl Eng 2 $\alpha=4^\circ$ $\beta=4^\circ$ $m/m^*=.610$ 0.651

Pt/Pto 131-144

[illegible]

CP 330-344

| | | | | | | | | | | | | | |
|---|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| - | .244 | -.546 | -.424 | -.203 | .421 | -.234 | -.582 | -.722 | -.618 | -.490 | -.424 | -.221 | -.278 |
|---|------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|

Pt/Pto 101-130

| | | | | | | | |
|------|------|------|-------|-------|-------|------|------|
| .979 | .968 | .969 | 1.001 | 1.001 | 1.001 | .984 | .978 |
|------|------|------|-------|-------|-------|------|------|

| Variable | Mean | SD | Min | Max | Skewness | Kurtosis | Normality |
|---------------------------|-------|-------|-------|-------|----------|----------|-----------|
| Age | 35.2 | 12.5 | 18 | 65 | 0.15 | 3.2 | 0.999 |
| Gender | 1.2 | 0.4 | 1 | 2 | 0.05 | 2.8 | 1.001 |
| Education | 12.5 | 2.1 | 9 | 16 | 0.25 | 3.5 | 0.979 |
| Income | 45000 | 15000 | 20000 | 80000 | 0.35 | 3.8 | 0.999 |
| Health | 2.1 | 0.8 | 1 | 4 | 0.10 | 3.0 | 1.001 |
| Stress | 3.8 | 1.2 | 1 | 6 | 0.20 | 3.4 | 0.999 |
| Workload | 4.2 | 1.5 | 1 | 7 | 0.30 | 3.7 | 0.979 |
| Job Satisfaction | 3.5 | 1.0 | 1 | 5 | 0.18 | 3.3 | 1.001 |
| Turnover Intent | 2.8 | 0.9 | 1 | 5 | 0.22 | 3.6 | 0.999 |
| Organizational Commitment | 3.2 | 1.1 | 1 | 5 | 0.12 | 3.1 | 1.001 |
| Work-Life Balance | 2.5 | 0.7 | 1 | 4 | 0.08 | 2.9 | 1.001 |
| Employee Engagement | 3.0 | 1.0 | 1 | 5 | 0.15 | 3.2 | 0.999 |
| Team Cohesion | 3.3 | 1.1 | 1 | 5 | 0.10 | 3.0 | 1.001 |
| Supervisor Support | 3.1 | 1.0 | 1 | 5 | 0.12 | 3.1 | 0.979 |
| Organizational Culture | 3.4 | 1.1 | 1 | 5 | 0.15 | 3.3 | 1.001 |
| Work Environment | 2.9 | 0.8 | 1 | 4 | 0.05 | 2.8 | 1.001 |
| Job Security | 3.6 | 1.0 | 1 | 5 | 0.10 | 3.0 | 0.999 |
| Compensation | 3.7 | 1.1 | 1 | 5 | 0.15 | 3.3 | 1.001 |
| Benefits | 3.8 | 1.2 | 1 | 5 | 0.18 | 3.5 | 0.979 |
| Training Opportunities | 3.9 | 1.3 | 1 | 5 | 0.20 | 3.7 | 1.001 |
| Career Development | 4.0 | 1.4 | 1 | 5 | 0.25 | 4.0 | 0.999 |
| Work-Life Balance | 4.1 | 1.5 | 1 | 5 | 0.30 | 4.3 | 1.001 |
| Employee Engagement | 4.2 | 1.6 | 1 | 5 | 0.35 | 4.6 | 0.979 |
| Team Cohesion | 4.3 | 1.7 | 1 | 5 | 0.40 | 5.0 | 1.001 |
| Supervisor Support | 4.4 | 1.8 | 1 | 5 | 0.45 | 5.4 | 0.999 |
| Organizational Culture | 4.5 | 1.9 | 1 | 5 | 0.50 | 5.8 | 1.001 |
| Work Environment | 4.6 | 2.0 | 1 | 5 | 0.55 | 6.2 | 0.979 |
| Job Security | 4.7 | 2.1 | 1 | 5 | 0.60 | 6.6 | 1.001 |
| Compensation | 4.8 | 2.2 | 1 | 5 | 0.65 | 7.0 | 0.999 |
| Benefits | 4.9 | 2.3 | 1 | 5 | 0.70 | 7.4 | 1.001 |
| Training Opportunities | 5.0 | 2.4 | 1 | 5 | 0.75 | 7.8 | 0.979 |
| Career Development | 5.1 | 2.5 | 1 | 5 | 0.80 | 8.2 | 1.001 |
| Work-Life Balance | 5.2 | 2.6 | 1 | 5 | 0.85 | 8.6 | 0.999 |
| Employee Engagement | 5.3 | 2.7 | 1 | 5 | 0.90 | 9.0 | 1.001 |
| Team Cohesion | 5.4 | 2.8 | 1 | 5 | 0.95 | 9.4 | 0.979 |
| Supervisor Support | 5.5 | 2.9 | 1 | 5 | 1.00 | 9.8 | 1.001 |
| Organizational Culture | 5.6 | 3.0 | 1 | 5 | 1.05 | 10.2 | 0.999 |
| Work Environment | 5.7 | 3.1 | 1 | 5 | 1.10 | 10.6 | 1.001 |
| Job Security | 5.8 | 3.2 | 1 | 5 | 1.15 | 11.0 | 0.979 |
| Compensation | 5.9 | 3.3 | 1 | 5 | 1.20 | 11.4 | 1.001 |
| Benefits | 6.0 | 3.4 | 1 | 5 | 1.25 | 11.8 | 0.999 |
| Training Opportunities | 6.1 | 3.5 | 1 | 5 | 1.30 | 12.2 | 1.001 |
| Career Development | 6.2 | 3.6 | 1 | 5 | 1.35 | 12.6 | 0.979 |
| Work-Life Balance | 6.3 | 3.7 | 1 | 5 | 1.40 | 13.0 | 1.001 |
| Employee Engagement | 6.4 | 3.8 | 1 | 5 | 1.45 | 13.4 | 0.999 |
| Team Cohesion | 6.5 | 3.9 | 1 | 5 | 1.50 | 13.8 | 1.001 |
| Supervisor Support | 6.6 | 4.0 | 1 | 5 | 1.55 | 14.2 | 0.979 |
| Organizational Culture | 6.7 | 4.1 | 1 | 5 | 1.60 | 14.6 | 1.001 |
| Work Environment | 6.8 | 4.2 | 1 | 5 | 1.65 | 15.0 | 0.999 |
| Job Security | 6.9 | 4.3 | 1 | 5 | 1.70 | 15.4 | 1.001 |
| Compensation | 7.0 | 4.4 | 1 | 5 | 1.75 | 15.8 | 0.979 |
| Benefits | 7.1 | 4.5 | 1 | 5 | | | |

| | | | | | | | |
|-------|------|-------|-------|-------|-------|-------|-------|
| 1.001 | .992 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 |
| 1.001 | .992 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 | 1.001 |

$P_{TC} = 15.006$ $P_{TC}/P_{TO} = .995$ $K = .0329$

CP 310-320

| | | | | | | | | | |
|-----------------|------|------|-------|-------|-------|-------|-------|-------|-------|
| .894 | .254 | .079 | -.019 | -.200 | -.205 | -.185 | -.180 | -.136 | -.092 |
|-----------------|------|------|-------|-------|-------|-------|-------|-------|-------|

CP 321-329

| | | | | | | | |
|-------|------|------|------|------|------|-------|-------|
| | .677 | .477 | .391 | .188 | .020 | -.032 | -.117 |
| 1.003 | .963 | | | | | | |

Pa 301-309 12.471 12.050 12.514 12.811 13.025 13.298 13.409 13.468 13.516

Ps 201-206 13.358 13.404 13.454 13.407 13.141 13.155

Pa 207-212 12.876 12.922 12.954 12.937 12.886 12.822

| | | | | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|
| Pa | 213-224 | 14.735 | 13.114 | 12.573 | 12.181 | 12.200 | 12.673 | 12.856 | 12.927 | 12.945 | 13.655 | 13.695 | 13.629 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|

| | | | | | | | | | | | |
|----|---------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| Pa | 225-236 | 14.242 | 11.600 | 11.295 | 1.329 | 12.381 | 12.468 | 12.578 | 13.313 | 13.633 | 13.809 |
| Pa | 225-236 | 14.242 | 11.600 | 11.295 | 1.329 | 12.381 | 12.468 | 12.578 | 13.313 | 13.633 | 13.809 |

Pa 237-245 14.321 14.322 14.324 14.322 13.722 13.418 13.154 13.124

$P_{cw} = 13.320$ $L = .0208$ $P_{eb} = 12.899$ $P_{tc}/P_{cw} = 1.127$ $W_c = 1.65$ $T = 96.$ $B = 29.87$

Run 28-17 C1 D1 S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=-10^\circ$ $m/m^*=630$ 0.651

Pt/Pto 131-144

| | | | | | | | | | | | |
|------|-----|------|-----|------|------|------|------|------|------|------|------|
| 666. | 998 | 966. | 994 | .987 | .982 | .999 | .996 | .989 | .982 | .971 | .970 |
|------|-----|------|-----|------|------|------|------|------|------|------|------|

CP 330-344

| | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -.295 | -.203 | -.543 | -.468 | -.274 | .363 | -.271 | -.604 | -.736 | -.636 | -.516 | -.334 | -.523 | -.269 | -.371 |
|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

Pt/Pto 101-130

| | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| .975 | .940 | .972 | .970 | 1.001 | 1.001 | 1.001 | .950 | .980 | .977 |
| .001 | 1.001 | 1.001 | .959 | .978 | .977 | 1.001 | 1.001 | 1.001 | .973 |
| .984 | .991 | 1.001 | 1.001 | 1.001 | .995 | .998 | 1.000 | 1.001 | 1.001 |

$P_{TC} = 14.898$ $P_{TC}/P_{TO} = .988$ $K = .0621$

CP 310-320

| | | | | | | | | | | |
|------|----------------|------|------|-------|-------|-------|-------|-------|-------|-------|
| .808 | 669 | .215 | .040 | -.059 | -.248 | -.287 | -.284 | -.272 | -.221 | -.188 |
|------|----------------|------|------|-------|-------|-------|-------|-------|-------|-------|

CP 321-329

| | | | | | | | | |
|------|-------|------|------|------|------|------|------|-------|
| .719 | 1.013 | .887 | .700 | .597 | .356 | .114 | .013 | -.105 |
|------|-------|------|------|------|------|------|------|-------|

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 301-309 | 11.860 | 11.290 | 11.959 | 12.393 | 12.699 | 13.091 | 13.192 | 13.232 | 13.304 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

P₃ 201-206 13.181 13.248 13.300 13.241 12.944 12.955

| | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|
| Pa | 207-212 | 12.649 | 12.708 | 12.751 | 12.714 | 12.663 | 12.594 |
|----|---------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|
| Pa | 213-224 | 14.579 | 12.809 | 12.234 | 11.820 | 11.829 | 12.393 | 12.601 | 12.684 | 12.708 | 13.443 | 13.518 | 13.449 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|

| | | | | | | | | | | | |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| P ₃ | 225-236 | 13.424 | 10.886 | 10.916 | 11.140 | 11.875 | 12.059 | 12.209 | 12.945 | 13.312 | 13.529 |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa | 237-245 | 14.274 | 14.274 | 14.275 | 14.276 | 14.275 | 13.498 | 13.196 | 12.901 | 12.891 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

$P_{ev} = 13.145$ $L = .0239$ $P_{eb} = 12.680$ $P_{tc}/P_{ev} = 1.133$ $W_c = 1.67$ $T = 96.$ $B = 29.87$

Run 28-18 C1 I1 S1 B1 Eng 2 $\alpha = 4^\circ$ $\beta = -10^\circ$ $m/m' = 6.10$ 0.651

Pt/Pto 131-144

.999 .998 .999 .997 .991 .984 .999 1.000 1.000 .999 .993 .986 .971 .970

Cp 330-344

~~.985~~ -.019 -.363 -.332 -.171 .451 -.101 -.429 -.593 -.540 -.450 -.315 -.523 -.220 -.339

Pt/Pto 101-130

.974 .948 .978 .974 1.001 1.001 1.001 .963 .984 .982
1.001 1.001 .975 .984 .983 1.001 1.001 1.001 .992
.994 .996 1.001 1.001 1.001 1.000 1.001 1.001 1.001 1.001

Ptc = 14.953 Ptc/Pto = .991 K = .0532

Cp 310-320

.886 ~~.711~~ .444 .252 .138 -.075 -.179 -.178 -.171 -.158 -.132

Cp 321-329

.874 1.027 .832 .631 .534 .319 .131 .074 -.017

Ps 301-309 12.269 11.511 12.149 12.533 12.798 13.166 13.263 13.307 13.372

Ps 201-206 13.232 13.300 13.335 13.288 13.002 13.012

Ps 207-212 12.715 12.767 12.804 12.778 12.726 12.657

Ps 213-224 14.313 12.459 11.950 11.658 11.760 12.470 12.616 12.709 12.750 13.513 ~~13.530~~ 13.502

Ps 225-236 13.756 ~~12.220~~ 11.043 10.908 11.137 ~~11.595~~ 11.987 12.209 12.371 13.064 13.396 13.602

Ps 237-245 14.290 14.291 14.292 14.292 14.292 13.558 13.273 12.981 12.962

Pev = 13.195 L = .0223 Peb = 12.741 Ptc/Pew = 1.133 Wc = 1.68 T = 95. B = 29.87

Run 28-19 C1 I1 S1 B1 Eng 2 $\alpha = -4^\circ$ $\beta = -4^\circ$ $m/m^* = 610$ 0.654

Pt/Pto 131-144

1.000 .999 1.000 .998 .990 .985 1.000 1.000 1.000 .999 .993 .986 .973 .972

Cp 330-344

~~279~~ -.108 -.415 -.340 -.162 .507 -.061 -.406 -.577 -.523 -.429 -.272 -.455 -.198 -.293

Pt/Pto 101-130

.976 .978 .968 .967 1.000 1.001 1.001 1.001 .987 .981
1.001 1.001 1.001 1.000 .984 1.001 1.001 1.001 1.001
1.001 .998 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Ptc = 15.011 Ptc/Pto = .995 K = .0342

Cp 310-320

~~989~~ ~~710~~ .483 .286 .171 -.042 -.125 -.118 -.121 -.104 -.078

Cp 321-329

1.018 .880 .552 .350 .273 .100 -.017 -.030 -.087

Ps 301-309 12.611 12.003 12.587 12.905 13.090 13.253 13.363 13.425 13.469

Ps 201-206 13.302 13.351 13.404 13.350 13.079 13.091

Ps 207-212 12.803 12.851 12.886 12.865 12.813 12.745

Ps 213-224 14.455 12.693 12.204 11.914 11.999 12.575 12.763 12.846 12.872 13.613 ~~13.637~~ 13.582

Ps 225-236 14.451 ~~13.105~~ 11.786 11.390 11.343 ~~11.600~~ 12.359 12.423 12.521 13.263 13.607 13.806

Ps 237-245 14.320 14.321 14.322 14.317 14.322 13.675 13.365 13.095 13.068

Pev = 13.263 L = .0216 Peb = 12.827 Ptc/Pev = 1.132 Wc = 1.67 T = 95. B = 29.87

Run 28-20 C1 I1 S1 B1 Eng 2 $\alpha = -4^\circ$ $\beta = 4^\circ$ $m/m^* = 520$ 0.653

Pt/Pto 131-144

1.000 1.000 1.000 .998 .991 .985 1.000 1.000 1.000 .999 .992 .984 .974 .972

Cp 330-344

.054 - .311 - .553 - .427 - .242 .516 - .052 - .403 - .578 - .528 - .429 - .265 - .452 - .228 - .313

Pt/Pto 101-130

.979 .989 .986 .962 1.000 1.001 1.001 1.001 1.001 1.001 .988
1.001 1.001 1.001 1.001 1.000 1.001 1.001 1.001 1.001 1.001
1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Ptc = 15.045 Ptc/Pto = .997 K = .0389

Cp 310-320

1.015 .724 .461 .253 .134 -.073 -.131 -.119 -.152 -.127 -.103

Cp 321-329

.771 .370 -.002 -.138 -.156 -.232 -.236 -.188 -.165

Ps 301-309 14.178 12.815 13.252 13.368 13.404 13.345 13.425 13.490 13.526

Ps 201-206 13.349 13.393 13.464 13.405 13.135 13.150

Ps 207-212 12.868 12.915 12.950 12.931 12.880 12.811

Ps 213-224 14.583 12.981 12.527 12.259 12.314 12.754 12.955 13.007 13.010 13.661 13.679 13.626

Ps 225-236 14.957 14.176 12.958 12.448 12.140 12.375 12.696 12.735 12.766 13.344 13.682 13.922

Ps 237-245 14.327 14.327 14.328 14.329 14.327 13.715 13.412 13.159 13.134

Pcv = 13.316 L = .0219 Pcb = 12.893 Ptc/Pcv = 1.130 Wc = 1.67 T = 95. B = 29.87

Run 28-22 C1 I1 S1 B1 Eng 2 $\alpha = 4^\circ$ $\beta = 10^\circ$ $m/m^* = 6.10$ 0.657, 0.650

Pt/Pto 131-144
1.000 1.000 1.000 .998 .991 .986 .999 .999 .998 .997 .989 .980 .974 .971

Cp 330-344
-.167 -.518 -.703 -.546 -.368 .470 -.075 -.420 -.594 -.542 -.453 -.307 -.533 -.296 -.396

Pt/Pto 101-130
.981 .994 .995 .974 .994 1.000 1.001 1.001 1.001 1.000 1.000
1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001
1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Ptc = 15.066 Ptc/Pto = .999 K = .0270

Cp 310-320
.957 -.739 .393 .186 .063 -.142 -.188 -.175 -.240 -.212 -.198

Cp 321-329
.232 -.183 -.502 -.528 -.488 -.473 -.394 -.297 -.234

Ps 301-309 14.622 13.219 13.507 13.560 13.553 13.369 13.448 13.507 13.550

Ps 201-206 13.361 13.401 13.479 13.429 13.157 13.166

Ps 207-212 12.887 12.936 12.969 12.951 12.900 12.833

Ps 213-224 14.596 13.084 12.660 12.416 12.468 12.821 13.048 13.080 13.064 13.677-13.709 13.641

Ps 225-236 14.975 14.662 13.601 13.047 12.604 12.844 12.907 12.902 13.385 13.712 13.966

Ps 237-245 14.308 14.306 14.309 14.308 13.720 13.425 13.179 13.145

Pev = 13.332 L = .0214 Pev = 12.913 Ptc/Pev = 1.130 Wc = 1.67 T = 95. B = 29.88

Run 12-1 01 11 53 31 Eng 2 240° P40° W/m = ~~247~~ 0.719

Pt/Pto 131-144

1.000 1.000 .999 .995 .966 .983 1.000 1.000 .999 .996 .983 .972 .972

Cp 330-344

~~144~~ -.250 -.534 -.407 -.206 .473 -.149 -.197 -.637 -.580 -.475 -.307 -.512 -.245 -.346

Pt/Pto 101-130

.976 .981 .968 .962 1.000 1.001 1.001 1.001 1.000 .972
1.001 1.001 1.001 1.001 .974 1.001 1.001 1.001 1.001 1.001
1.001 .994 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Ptc = 15.001 itc/ito = .995 K = .0396

Cp 310-320

1.003 ~~1.003~~ .440 .241 .122 -.030 -.141 -.120 -.133 -.104 -.071

Cp 321-329

1.018 .799 .447 .255 .185 .045 -.065 -.070 -.114

Is 301-309 12.433 11.708 12.325 12.362 12.846 12.905 13.089 13.159 13.207

Is 201-206 13.014 13.076 13.137 13.059 12.743 12.788

Is 207-212 12.427 12.465 12.522 12.497 12.434 12.357

Is 213-224 14.479 12.595 12.028 11.646 11.681 12.264 12.476 12.551 12.563 13.384 ~~13.584~~ 13.340

Is 225-236 14.553 13.205 11.740 11.224 11.047 11.346 12.059 12.098 12.181 12.985 13.389 13.656

Is 237-245 14.308 14.308 14.309 14.309 14.308 13.431 13.103 12.795 12.751

Pcw = 12.970 L = .0262 Pcs = 12.454 Ptc/Pcw = 1.157 Kc = 1.82 T = 71. B = 29.86

Ann 29-2 31 11 51 3. Aug 2 $\alpha = 1^\circ$ $\beta = 0^\circ$ m/m² = ~~77~~ 0.750

It/It0 131-144

1.000 1.000 1.000 .997 .990 .935 1.000 1.000 1.000 .992 .965 .974 .972

Cp 330-344

~~144~~ -201 -.480 -.380 -.204 .512 -.005 -.410 -.504 -.531 -.440 -.299 -.523 -.435 -.354

It/It0 101-130

.075 .080 .065 .901 1.000 1.000 1.000 1.000 1.000 .974
1.000 1.000 1.000 1.000 .970 1.000 1.000 1.000 1.001 1.001
1.000 .97 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.001

Ptc = 15.007 Ptc/It0 = .995 K = .0402

Cp 310-320

1.005 -.181 .530 .330 .204 -.019 -.100 -.102 -.120 -.101 -.076

Cp 321-329

.901 .724 .355 .167 .100 -.037 -.109 -.097 -.124

Ps 301-309 12.870 11.742 12.435 12.750 12.907 12.930 13.095 13.163 13.210

Ps 301-206 13.017 13.070 13.137 13.061 12.740 12.785

Ps 207-212 12.420 12.400 12.515 12.497 12.434 12.350

Ps 213-224 14.325 12.393 11.501 11.537 11.009 12.239 12.457 11.530 12.550 13.397 ~~13.446~~ 13.342

Ps 225-236 14.636 13.342 11.940 11.917 11.090 11.395 12.080 12.112 12.191 12.980 13.394 13.663

Ps 237-245 14.509 14.310 14.310 14.311 14.300 13.437 13.104 12.797 13.110

rev = 12.970 L = .0264 Pcb = 12.454 Ptc/rev = 1.157 We = 1.82 T = 75. B = 29.87

Run 29-3 C1 I2 S1 B1 S2S 2 2=10° 5=C° m/m ~~11~~ 0.770 0.725

Pt/Pto 131-144

1.000 1.000 1.000 1.000 .974 .980 1.000 1.000 1.000 1.000 .996 .988 .972 .972

Cp 330-344

.160 -117 -380 -325 -186 .596 .684 -148 -430 -440 -356 -261 -540 -201 -355

Pt/Pto 101-130

.073 .980 .965 .956 1.000 1.001 1.001 1.001 1.000 .980
1.000 1.000 1.001 1.000 .972 1.000 1.001 1.001 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 15.014 Pto/Pto = .95 K = .0452

Cp 310-320

.989 -155 .685 .479 .351 .110 -035 -043 -078 -073 -064

Cp 321-329

.923 .608 .216 .033 -012 -142 -193 -152 -169

Ps 301-309 13.034 11.889 12.665 12.924 13.012 13.001 13.116 13.187 13.231

Ps 201-206 13.036 13.097 13.153 13.220 12.750 12.800

Ps 207-212 12.453 12.508 12.545 12.522 12.457 12.381

Ps 213-224 14.017 12.058 11.599 11.390 11.521 12.271 12.453 12.542 12.555 13.401 ~~13.454~~ 13.356

Ps 225-236 14.727 13.524 12.051 11.473 11.214 11.498 12.134 12.161 12.231 13.010 13.412 13.682

Ps 237-245 14.316 14.317 14.317 14.317 14.315 13.457 13.123 12.018 12.773

Pcw = 12.969 L = .0262 Pcb = 12.478 Pto/Pcw = 1.156 Wc = 1.81 T = 79. B = 29.87

Rm 29-4 C1 I1 S1 B1 Em 2 $\alpha=20^\circ$ $\beta=0^\circ$ $m/m^* = \frac{1}{11}$ 0.750

Pt/Pto 131-144

1.000 1.000 1.000 1.000 .998 .992 1.000 1.000 1.000 1.000 .993 .976 .971

Cp 330-344

~~.977~~ .014 -.016 -.016 -.013 .719 .343 .040 -.151 -.186 -.153 -.497 -.101 -.317

Pt/Pto 101-130

.970 .980 .977 .987 1.000 1.001 1.001 1.001 1.000 .992
1.001 1.001 1.001 1.001 1.000 1.001 1.001 1.001 1.000
1.000 1.001 1.001 1.001 1.001 1.001 1.000 1.001 1.001

Pto = 15.037 Pto/Pto = .997 K = .0337

Cp 310-320

.779 ~~.119~~ .097 .715 .590 .348 .121 .093 .028 .011 -.012

Cp 321-329

.777 .404 .005 -.194 -.232 -.340 -.384 -.326 -.295

Ps 301-309 14.116 12.241 12.890 13.064 13.112 13.028 13.131 13.201 13.243

Ps 201-206 13.049 13.104 13.158 13.096 12.767 12.818

Ps 207-212 12.461 12.514 12.557 12.533 12.468 12.389

Ps 213-224 13.344 11.401 11.101 11.099 11.305 12.266 12.414 12.519 12.554 13.407 ~~13.407~~ 13.360

Ps 225-236 14.799 13.750 12.284 11.670 11.345 11.618 12.177 12.203 12.255 13.021 13.424 13.699

Ps 237-245 14.344 14.344 14.345 14.346 14.345 13.463 13.130 12.926 12.781

Pto = 12.999 L = .0200 Feb = 12.487 Pto/Pto = 1.157 Wc = 1.81 T = 31. B = 29.87

| | |
|--------|---|
| Pt/Pto | 131-144 |
| 1.000 | 1.000 .997 .992 .986 .981 1.000 1.000 .997 .993 .986 .980 .972 .972 |
| Cp | 300-344 |
| .967 | - .303 -.586 -.433 -.213 .431 -.231 -.584 -.725 -.625 -.503 -.312 -.514 -.251 -.346 |
| Pt/Pto | 101-130 |
| .978 | .980 .968 .958 1.000 1.001 1.001 1.000 .971 |
| 1.001 | 1.001 1.001 1.001 .974 1.001 1.001 1.001 1.001 |
| 1.001 | .993 1.001 1.001 1.001 1.001 1.001 1.001 1.001 |
| Ptc = | 15.007 Ptc/Pto = .995 K = .0435 |
| Cp | 310-320 |
| .967 | .998 .344 .151 .042 -.154 -.167 -.146 -.143 -.05 -.063 |
| Cp | 321-329 |
| 1.026 | .865 .537 .340 .263 .087 -.034 -.061 -.118 |
| Ps | 301-309 12.279 11.625 12.214 12.577 12.802 12.975 13.081 13.156 13.200 |
| Ps | 201-206 13.011 13.065 13.128 13.052 12.729 12.778 |
| Ps | 207-212 12.415 12.472 12.508 12.484 12.421 12.344 |
| Ps | 213-224 14.613 12.767 12.167 11.727 11.740 12.286 12.486 12.551 12.558 13.375 13.423 13.338 |
| Ps | 225-236 14.439 13.021 11.564 11.078 10.952 11.257 12.021 12.067 12.157 12.974 13.382 13.644 |
| Ps | 237-245 14.290 14.291 14.290 14.291 14.291 13.428 13.091 12.785 12.741 |
| Pcw = | 12.961 L = .0266 Peb = 12.441 Ptc/Pcw = 1.158 Wc = 1.81 T = 84. B = 29.87 |

Run 29-6 CI 11 51 51 Evg 11-10° p-c' m/m' 277 0.725

Pt/Pto 131-144

.993 .997 .993 .982 .979 .999 .997 .992 .987 .982 .976 .971 .971

Cp 330-344

~~.957~~ .970 .940 .954 .917 .973 .933 .905 .790 .653 .511 .497 .495 .444 .332

Pt/Pto 101-130

.970 .971 .955 1.001 1.001 1.001 1.001 1.000 .996
1.001 1.001 1.001 1.001 .972 1.001 1.001 1.001 1.001
1.001 .980 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Pto = 15.006 Pto/Pto = .994 K = .0404

Cp 310-320

.903 ~~.903~~ .925 .043 .053 .022 .182 .153 .142 .090 .043

Cp 321-329

1.001 .945 .656 .456 .365 .163 .006 .069 .157

Ps 301-309 12.183 11.638 12.029 12.446 12.709 12.985 13.297 13.170 13.213

Ps 201-206 13.048 13.002 13.145 13.070 12.749 12.790

Is 207-212 12.437 12.493 12.527 12.503 12.444 12.363

Is 213-224 14.761 12.992 12.353 11.843 11.813 12.311 12.509 12.570 12.573 13.390 ~~13.406~~ 13.355

Is 225-236 14.213 12.709 11.265 10.363 10.822 11.146 11.78 12.045 12.147 12.985 13.391 13.640

Is 237-245 14.287 14.489 14.289 14.287 14.287 13.440 13.209 12.803 12.701

Pow = 12.978 L = .0204 Pto = 12.462 Pto/Pow = 1.156 Mc = 1.80 T = 86. B = 29.88

Run 20-7 C1 I1 C1 E1 E2 2 $\alpha=20^\circ$ $\beta=0^\circ$ m/m² = ~~27~~ 0.719 0.723

Pt/its 131-144

.990 .995 .996 .991 .970 .998 .990 .991 .987 .981 .976 .970 .970

Sp 330-344

~~410~~ -.456⁵ -.602 -.457 -.220 .313 -.440 -.752 -.812 -.630 -.465 -.242 -.471 -.004 -.318

Pt/its 101-130

.981 .977 .948 1.001 1.001 1.001 1.000 .968 .965
1.001 1.001 1.001 .985 .979 1.001 1.001 1.001 1.001
.990 .994 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Ptc = 14.975 Ptc/Pto = .992 K = .0547

Sp 310-320

.774⁴ ~~-.057~~ .070 -.067 -.141 -.268 -.158 -.103 -.103 -.046 -.027

Sp 321-329

.615 .901 .793 .602 .505 .266 .009 -.094 -.211

Ps 301-309 12.113 11.623 11.702 11.966 12.082 12.033 13.002 13.140 13.177

Ps 201-206 12.993 13.044 13.099 13.035 12.700 12.799

Ps 107-212 12.305 12.447 12.484 12.455 12.397 12.325

Ps 213-224 14.891 13.023 12.039 10.938 11.841 12.290 12.483 12.532 12.537 13.355 ~~13.409~~ 13.323

Ps 225-236 13.674 12.075 10.741 10.443 10.557 11.020 11.854 11.955 12.003 12.961 13.330 13.542

Ps 237-245 14.286 14.288 14.287 14.288 14.282 13.420 13.070 12.757 12.716

Pcw = 12.940 L = .0261 Pcb = 12.416 Ptc/Pcw = 1.157 Wc = 1.80 T = 86. 3 = 29.88

Jan 29-8 Cl 11 S1 E1 Er-2 $\alpha=0^\circ$ $\beta=-4^\circ$ m/m²=~~0.725~~ 0.725

Pt/Pto 131-144

1.000 1.000 1.000 .995 .988 .983 1.000 1.000 1.000 .997 .990 .983 .972 .972

Cp 330-344

~~0.977~~ -.175 -.471 -.309 -.187 .455 -.161 -.505 -.662 -.554 -.477 -.315 -.530 -.243 -.350

Pt/Pto 101-130

.975 .975 .954 .952 1.001 1.001 1.001 1.001 .980 .975
1.001 1.001 1.001 .998 .976 1.001 1.001 1.001 1.001
1.001 .992 1.001 1.001 1.001 1.001 1.000 1.001 1.001

Pto = 14.980 Pto/Pto = .994 K = .0395

Cp 316-320

.955 ~~0.955~~ .842 .830 .102 -.092 -.098 -.147 -.117 -.005

Cp 341-345

.995 .961 .616 .404 .373 .174 .024 -.012 -.004

Ps 391-309 12.215 11.593 12.050 12.403 12.650 12.950 13.275 13.145 13.146

Ps 401-306 13.014 13.070 13.100 13.053 12.729 12.777

Ps 207-212 12.407 12.473 12.509 12.484 12.421 12.340

Is 213-224 14.492 12.440 11.858 11.470 11.535 12.228 12.340 12.402 12.500 13.309 ~~13.405~~ 13.332

Ps 225-236 14.126 12.550 11.084 10.671 10.606 10.200 11.897 11.900 12.090 12.907 13.340 13.551

Is 237-245 14.273 14.270 14.279 14.280 14.280 13.444 13.092 12.779 12.736

Icw = 12.958 L = .0253 Pto = 12.402 Pto/Pto = 1.157 Ps = 1.80 T = 80.5 S = 29.85

Run 25-9 01 11 31 01 23 2 σ 0° ρ = 10° m/m ~~0.775~~ 0.775

Pt/Fto 131-144

.999 .999 .996 .989 .983 .999 1.000 1.000 .998 .991 .984 .971 .970

Cp 330-344

~~.999~~ -.113 -.466 -.413 -.245 .142 -.202 -.529 -.680 -.006 -.501 -.365 -.624 -.282 -.449

Pt/Fto 101-130

.971 .932 .972 .964 1.001 1.001 1.001 .947 .976 .976
1.001 1.001 1.001 .973 1.001 1.001 1.001 .979
.984 .994 1.001 1.001 .998 .999 1.001 1.001 1.001

Ptc = 14.885 Pto/Ato = .987 K = .0694

Cp 310-320

.955 ~~.934~~ .391 .191 .000 -.137 -.228 -.226 -.230 -.191 -.169

Cp 321-329

.706 1.027 .900 .793 .601 .369 .145 .060 -.040

Ps 301-309 11.613 14.526 11.337 11.907 12.300 12.727 12.815 12.861 12.939

Ps 201-209 12.792 12.873 12.910 12.944 12.981 12.993

Ps 207-212 12.129 12.199 12.257 12.303 12.337 12.054

Ps 213-224 14.215 12.101 11.473 11.040 11.114 11.937 12.099 12.196 12.227 13.116 ~~13.115~~ 13.115

Ps 225-237 13.243 11.545 10.220 10.120 10.415 10.984 11.338 11.564 11.736 12.332 12.953 13.215

Ps 237-245 14.235 14.237 14.239 14.233 14.237 13.188 12.030 12.172 12.653

Pow = 12.733 L = .0285 Pcb = 12.163 Pto/Pow = 1.169 Wc = 1.83 T = 86. B = 29.05

Jan 29-10 Cl Il Sl Bl Eng C = 0° $\beta = 4^\circ$ m/m* ~~0.725~~ 0.725

Ft/Lto 131-144
1.000 1.000 .999 .995 .988 .983 .997 1.000 .999 .995 .981 .972 .972
Cp 330-344
~~0.972~~ -.347 -.599 -.445 -.241 .470 -.151 -.504 -.664 -.588 -.481 -.311 -.533 -.262 -.362

Ft/Pto 101-130
.978 .987 .962 .954 1.000 1.001 1.001' 1.001 1.001 .974
1.001 1.001 1.001 1.001 .981 1.001 1.001 1.001 1.001
1.001 .999 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Pto = 15.013 Fto/Pto = .996 K = .0473

Cp 310-320
1.016 ~~0.992~~ .431 .423 .400 .400 -.109 -.147 -.129 -.148 -.117 -.086

Cp 321-329
.931 .580 .198 .036 -.005 -.117 -.152 -.126 -.134

Fs 301-309 13.344 11.937 12.618 12.504 12.976 12.993 13.069 13.161 13.200

Fs 201-209 13.004 13.057 13.143 13.049 12.723 12.774

Is 207-212 12.410 12.469 12.505 12.481 12.415 12.339

Is 213-224 14.527 12.700 12.150 11.721 11.696 12.325 12.539 12.594 12.591 13.373 ~~13.354~~ 13.334

Is 225-236 14.816 13.727 12.305 11.720 11.410 11.690 12.193 12.220 12.268 12.909 13.592 13.575

Fs 237-245 14.272 14.272 14.273 14.274 14.273 13.419 13.086 12.784 12.730

Pcv = 12.955 L = .0266 Peb = 12.437 Fto/Fcv = 1.159 Mc = 1.81 T = 96. B = 29.35

Run 29-11 C1 I1 S1 E1 2 $\alpha=0^\circ$ $\beta=10^\circ$ $m/\mu^2 = .947$ 0.725

Pt/pts 131-141

1.000 1.000 1.000 .996 .989 .987 .998 .990 .997 .994 .985 .975 .972 .970

Cp 330-344

-.530 -.727 -.541 -.340 .421 -.175 -.524 -.684 -.506 -.358 -.623 -.322 -.341

Pt/pts 101-130

.980 .991 .980 .955 .997 1.000 1.001 1.001 1.001 .936
1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001
1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Pto = 15.029 Pto/Pto = .997 K = .0455

Cp 340-350

.964 .373 .164 .039 -.166 -.191 -.170 -.225 -.106 -.165

Cp 341-329

.542 .217 -.243 -.319 -.312 -.357 -.286 -.215 -.177

Is 301-309 14.140 12.624 13.072 13.113 13.185 13.057 13.120 13.190 13.236

Is 201-209 13.055 13.082 13.119 13.180 12.762 12.809

Ps 207-213 12.454 12.511 12.530 12.535 12.461 12.384

Is 213-224 14.341 12.827 12.514 11.970 11.995 12.448 12.654 12.690 12.677 12.402 13.360

Is 225-230 14.259 14.368 15.058 12.432 11.960 12.216 12.100 12.420 12.444 13.047 13.438 13.733

Is 237-245 14.243 14.344 14.245 14.243 14.244 13.444 13.115 12.822 12.717

Rev = 12.387 L = .0450 Pto = 14.481 Pto/Pto = 1.157 Kc = 1.80 T = 86. E = 29.84

Run 29-12 C1 IL S1 EL Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ m/m = ~~0.677~~ 0.713

Pt/Fto 131-144

1.000 1.000 .999 .998 .987 .982 .997 .997 .996 .991 .971 .971 .970

Cp 330-344

~~0.998~~ -.535 -.730 -.520 -.296 .575 -.254 -.604 -.744 -.045 -.529 -.360 -.613 -.311 -.415

Pt/Fto 101-130

.961 .991 .988 .950 .998 1.000 1.001 1.001 1.001 1.001 .979
1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001
1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Ptc = 15.0-6 Ptc/Fto = .997 K = .0516

Cp 310-320

.950 ~~0.957~~ .295 .101 -.015 -.004 -.174 -.161 -.203 -.153 -.116

Cp 321-329

.687 .273 -.091 -.104 -.189 -.237 -.011 -.104 -.145

Ps 301-309 13.576 12.410 12.967 13.165 13.132 13.041 13.120 13.201 13.236

Ps 201-206 13.039 13.033 13.155 13.085 12.766 12.913

Ps 207-212 12.458 12.515 12.551 12.528 12.467 12.388

Ps 213-224 14.556 12.910 12.423 12.029 12.020 12.447 12.555 12.591 12.675 13.406 ~~13.436~~ 13.354

Ps 225-236 14.960 14.254 12.910 12.298 11.864 12.109 12.375 12.396 12.417 13.046 13.436 13.729

Ps 237-245 14.230 14.230 14.430 14.432 14.229 13.455 13.120 12.823 12.781

Pcw = 12.990 L = .0259 Pcb = 12.464 Ptc/Pcw = 1.157 Wc = 1.80 T = 85. B = 29.85

Run 29-13 C1 I1 S1 B1 Eng 2 $\alpha=4^\circ$ $\rho=4^\circ$ m/m^* ~~11~~ 0.722.

It/Pto 131-144

1.000 1.000 .997 .992 .965 .961 .999 .999 .997 .992 .985 .978 .971 .971

Cp 330-344

~~0.822~~ -.382 -.632 -.452 -.229 .423 -.233 -.586 -.730 -.628 -.508 -.319 -.523 -.264 -.349

Pt/Pto 101-130

.979 .986 .982 .956 1.000 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001
1.001 1.001 1.001 1.001 .972 1.001 1.001 1.001 1.001 1.001
1.001 .995 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Ptc = 15.004 Ptc/Pto = .995 K = .0453

Cp 310-320

.977 ~~0.047~~ .336 .141 .031 -.151 -.153 -.137 -.144 -.106 -.064

Cp 321-329

.985 .681 .306 .140 .087 -.042 -.104 -.098 -.128

Ps 301-309 12.769 12.576 12.464 12.756 12.906 12.987 13.089 13.162 13.206

Ps 201-206 13.010 13.062 13.128 13.055 12.730 12.777

Ps 207-212 12.418 12.477 12.512 12.488 12.425 12.347

Ps 213-224 14.646 12.862 12.276 11.848 11.843 12.332 12.543 12.593 12.590 13.376 ~~13.422~~ 13.338

Ps 225-236 14.742 13.573 12.145 11.590 11.317 11.621 12.161 12.186 12.244 12.987 13.393 13.670

Ps 237-245 14.254 14.254 14.254 14.255 14.254 13.429 13.090 12.787 12.744

Pcw = 12.960 L = .0465 Pcb = 12.444 Ptc/Pcw = 1.158 Wc = 1.80 T = 86. B = 29.85

Run 23-14 C1 I1 S1 31 Eng 2 $\alpha=4^\circ$ $\beta=-4^\circ$ $m/\mu^2 = 0.724$

Pt/Pto 151-144

1.000 1.000 .998 .992 .966 .931 1.000 1.000 .998 .987 .981 .971 .971

Cp 330-344

~~.947~~ -.241 -.554 -.431 -.224 .419 -.243 -.591 -.726 -.505 -.320 -.521 -.256 -.362

Pt/Pto 101-130

.975 .973 .956 .960 1.000 1.001 1.000 1.000 .980 .971
1.000 1.001 1.001 1.001 .972 .971 1.000 1.001 1.001 1.001
1.001 .986 1.001 1.001 1.001 1.000 1.001 1.000 1.001 1.001

Ptc = 14.979 Ptc/Pto = .993 K = .0409

Cp 310-320

.933 ~~.034~~ .343 .149 .041 -.159 -.190 -.174 -.173 -.130 -.088

Cp 321-329

.752 .981 .732 .526 .431 .216 .037 -.020 -.104

Ps 301-309 11.865 11.433 11.889 12.250 12.537 12.917 13.039 13.107 13.159

Ps 401-406 12.973 13.030 13.071 13.016 12.687 12.736

Ps 207-212 12.357 12.425 12.462 12.436 12.372 12.297

Ps 213-224 14.523 12.582 11.955 11.496 11.512 12.136 12.352 12.439 12.463 13.534 ~~13.339~~ 13.301

Ps 225-236 13.961 12.352 10.868 10.467 10.517 10.875 11.771 11.896 12.039 12.919 13.292 13.506

Ps 237-245 14.257 14.259 14.259 14.250 14.259 13.416 13.049 12.733 12.692

Pcw = 12.919 L = .0255 Fcb = 12.393 Ftc/Fcw = 1.159 Wc = 1.81 T = 86. 3 = 29.85

Run 29-15 C1 11 S1 M1 206 2 0.44° P-10° ~~W/2° = 5.71~~ 0.735

Pt/Pto 131-144

.999 .999 .999 .987 .981 .999 .999 .999 .989 .989 .982 .970 .970

Cp 330-344

~~.999~~ -.203 -.553 -.477 -.294 .301 -.276 -.607 -.740 -.946 -.530 -.374 -.623 -.304 -.462

Pt/Pto 101-130

.971 .928 .937 .961 1.001 1.001 .941 .973 .974
1.001 1.001 1.001 .952 .977 1.001 1.001 1.001 .967
.977 .972 1.001 1.001 .995 .995 1.001 1.001 1.001

Pto = 14.835 Pto/Pto = .985 K = .0743

Cp 310-320

.830 ~~.444~~ .204 .094 -.013 -.217 -.279 -.279 -.267 -.219 -.127

Cp 321-329

.622 1.013 .923 .729 .623 .376 .127 .021 -.027

Ps 301-309 11.392 14.470 11.195 11.755 12.503 12.697 12.801 12.340 12.255

Ps 291-295 12.757 12.868 12.919 12.843 12.492 12.533

Ps 207-212 12.139 12.216 12.276 12.210 12.150 12.039

Ps 213-224 14.340 12.273 11.623 11.142 11.164 11.501 12.104 12.122 13.095 ~~13.244~~ 13.101

Ps 225-236 13.062 11.346 10.156 10.143 10.443 11.030 11.315 11.507 11.558 12.472 12.924 13.155

Is 237-245 14.190 14.191 14.193 14.193 14.191 13.134 12.811 12.455 12.444

Pto = 12.741 L = .0257 Pto = 12.177 Pto/Pto = 1.164 Wc = 1.32 T = 77.3 = 29.61

Aug 20-16 cl 11 S1 B1 242 2 44-4° $\beta = -10^\circ$ $\pi/\mu^2 = 2.71$ 0.727 0.723

Pt/Pto 131-144

.999 .999 .996 .991 .984 .999 .999 .994 .985 .971 .970

Cp 300-340

~~.999~~ -.023 -.073 -.342 -.192 .445 -.115 -.427 -.001 -.030 -.635 -.257 -.431

Pt/Pto 141-150

.974 .945 1.001 1.001 1.001 .954 .979 .979
1.001 1.001 .969 .979 1.001 1.001 1.001 .989
.991 .995 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Ptc = 14.292

Ptc/Pto = .989 $\lambda = .0642$

Cp 310-320

.857 ~~.999~~ .495 .298 .179 -.048 -.174 -.169 -.155 -.131

Cp 321-340

.755 1.036 .875 .625 .565 .343 .147 .082 -.012

Ps 301-309 11.859 10.609 11.468 11.005 12.341 12.775 12.889 12.039 13.010

Ps 201-206 12.848 12.027 12.950 12.905 12.561 12.601

Ps 207-12 12.215 12.282 12.335 12.290 12.227 12.145

Ps 213-224 14.016 11.871 11.298 10.951 11.056 11.948 12.115 12.229 12.275 13.187 ~~13.187~~ 13.158

Ps 225-236 13.407 11.674 10.280 10.080 10.361 10.923 11.393 11.653 11.247 12.658 13.047 13.221

Ps 237-245 14.007 14.206 14.206 14.206 13.125 12.909 12.562 12.534

Feb = 12.799 $\lambda = .0265$ Feb = 12.249 $\lambda = .0265$ Feb = 1.83 T = 78. B = 29.8

Run 29-17 Cl 11 51 51 Aug 2 $\alpha = 4^\circ$ $\beta = 4^\circ$ $m/m^2 = 0.733$

Pt/Pto 131-144

1.000 1.000 1.000 .997 .990 .984 1.000 1.000 1.000 .999 .992 .985 .972 .971

Cp 330-344

~~1.000~~ -.104 -.420 -.343 -.173 .510 -.069 -.408 -.570 -.526 -.438 -.303 -.529 -.222 -.351

Pt/Pto 101-130

.973 .975 .963 .964 1.000 1.001 1.001 1.000 .982 .978
1.001 1.001 1.001 1.001 1.000 .980 1.001 1.001 1.001 1.001 1.001
1.001 .999 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Pto = 14.966 Pto/Pto = .994 K = .0386

Cp 310-320

.995 ~~1.000~~ .539 .330 .209 .016 -.114 -.112 -.117 -.100 -.073

Cp 321-329

1.017 .929 .613 .395 .309 .125 -.001 -.020 -.079

Ps 301-309 12.322 11.552 12.120 12.424 12.725 12.975 13.004 13.165 13.211

Ps 201-206 13.027 12.080 13.129 13.074 12.761 12.799

Ps 207-214 12.452 12.503 12.543 12.513 12.459 12.322

Ps 213-224 14.233 12.250 11.709 11.389 11.425 12.241 12.305 12.403 12.522 13.383 ~~13.343~~ 13.343

Ps 225-230 14.241 12.712 11.229 10.770 10.729 11.032 11.919 12.002 12.122 12.987 13.366 13.583

Ps 237-245 14.245 14.249 14.246 14.249 14.243 13.427 13.111 12.803 12.762

Pcv = 12.979 L = .0246 Pcb = 12.476 Ptc/Pcv = 1.153 Wc = 1.79 T = 50. B = 29.80

Run 29-16 C1 11 31 31 Eng 2 $\alpha = -4^\circ$ $\beta = 4^\circ$ $m/m' = 677$ 0.727

Pt/Pto 131-144

1.000 1.000 1.000 .998 .921 .985 1.000 1.000 1.000 .999 .971 .984 .973 .972

Cp 334-344

~~1.000~~ .910 -.503 -.435 -.254 .510 -.065 -.414 -.590 -.536 -.445 -.304 -.543 -.252 -.379

Pt/Ptc 101-130

.975 .985 .902 .953 1.000 1.001 1.000 1.001 1.000 .984
1.000 1.000 1.000 1.000 1.000 .996 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.935 Pt/Ptc = .996 K = .0477

Cp 310-320

1.016 ~~1.000~~ .500 .302 .161 -.042 -.121 -.113 -.147 -.124 -.100

Cp 321-329

.636 .043 .076 -.072 -.105 -.129 -.216 -.175 -.175

Ps 301-309 13.255 12.161 12.809 12.977 13.047 13.010 13.114 13.185 13.222

Ps 101-206 13.035 13.090 13.150 13.186 12.772 12.612

Ps 207-212 12.465 12.522 12.558 12.593 12.472 12.356

Ps 213-224 14.356 12.506 12.007 11.704 11.776 12.349 12.552 12.615 12.621 13.390 ~~13.465~~ 13.357

Ps 225-236 14.847 13.806 12.446 11.857 11.522 11.798 12.250 12.275 12.322 13.023 13.418 13.674

Ps 237-245 14.242 14.243 14.244 14.244 14.244 13.453 13.112 12.821 12.780

Ptc = 12.992 L = .0257 Ptc = 12.491 Ptc/Ptc = 1.154 Wc = 1.80 T = 80. B = 29.80

Run 29-19 C1 I1 S1 31 Eng 2 $\alpha = -4^\circ$ $\beta = 10^\circ$ $\pi/m = 577$ 0.726 0.721

Pt/Ito 131-144

1.000 1.000 1.000 .998 .991 .985 .998 .998 .996 .997 .988 .979 .973 .970

Cp 330-344

~~.977~~ -.512 -.707 -.549 -.378 .453 -.086 -.431 -.603 -.552 -.408 -.346 -.633 -.323 -.459

Pt/Pto 101-130

.978 .990 .991 .994 .995 1.000 1.000 1.000 1.000 .997
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 15.011 * Ptc/Pto = .997 K = .0365

Cp 310-320

.959 ~~.647~~ .450 .245 .113 -.109 -.176 -.167 -.233 -.205 -.196

Cp 321-329

.401 -.042 -.099 -.448 -.428 -.435 -.369 -.286 -.227

Fs 301-309 14.300 12.761 13.111 13.204 13.208 13.054 13.113 13.128 13.236

Fs 201-206 13.033 13.089 13.153 13.093 12.771 12.812

Fs 207-212 12.452 12.520 12.556 12.533 12.472 12.393

Fs 213-224 14.364 12.609 12.137 11.863 11.923 12.432 12.634 12.678 12.667 13.461 ~~13.464~~ 13.357

Fs 225-236 14.936 14.415 13.147 12.509 12.020 12.240 12.410 12.447 12.456 13.053 13.457 13.730

Fs 237-245 14.225 14.227 14.226 14.225 14.226 13.445 13.115 12.825 12.781

Pev = 12.991 L = .0254 Peb = 12.490 Ptc/Pev = 1.156 Wc = 1.80 T = 29.80

Run 30-2 Cl II S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=C^\circ$ $m/m^*=$ ~~7.71~~ 0.813, 0.208

Pt/Pto 131-144

1.000 .999 .993 .994 .387 .981 .999 1.000 .993 .975 .988 .931 .958 .970

Cp 330-344

~~1.67~~ -.260 -.551 -.429 -.242 .467 -.159 -.514 -.679 -.508 -.507 -.380 -.669 -.307 -.485

Pt/Pto 101-130

.956 .971 .957 .941 1.000 1.001 1.001 1.001 .921 .952
1.000 1.001 1.001 1.000 .964 1.000 1.001 1.001 1.001
1.000 .988 1.000 1.001 1.001 1.000 1.000 1.000 1.001

Ptc = 14.741 Ptc/Pto = .991 K = .0505

Cp 310-320

.995 ~~1.46~~ .556 .341 .208 -.730 -.125 -.118 -.156 -.105 -.075

Cp 321-329

1.000 .863 .552 .333 .249 .068 -.047 -.050 -.113

Ps 301-309 11.740 14.511 11.164 11.652 11.295 12.308 12.456 12.560 12.620

Ps 301-306 12.355 12.438 12.507 12.417 12.010 12.059

Ps 207-212 11.573 11.654 11.704 11.656 11.563 11.467

Ps 213-224 14.027 11.049 10.938 10.428 10.469 11.411 11.608 11.797 11.728 12.655 ~~12.906~~ 12.797

Ps 225-236 14.180 12.484 10.597 9.854 9.598 9.955 11.097 11.119 11.244 12.340 12.850 13.170

Ps 237-245 14.095 14.090 14.090 14.090 14.095 12.323 12.499 12.032 ~~12.040~~

Pcv = 14.296 L = .0332 Pco = 11.003 Ptc/Pcv = 1.215 W2 = 2.00 T = 81. B = 23.84

[illegible][illegible]

| Variable | Mean | SD | Alpha | Reliability | Construct | Method | Sample | Year |
|-----------------------|------|------|-------|-------------|-----------|--------|--------|------|
| 1. Age | 35.2 | 10.5 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 2. Gender | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 3. Education | 12.5 | 2.5 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 4. Income | 45.0 | 15.0 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 5. Health | 75.0 | 10.0 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 6. Employment | 60.0 | 20.0 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 7. Social Support | 80.0 | 15.0 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 8. Life Satisfaction | 65.0 | 12.0 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 9. Stress | 55.0 | 18.0 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 10. Coping Strategies | 70.0 | 14.0 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

[illegible]

| | 0 | .25 | .50 | .75 | 1.00 |
|------|-------|-------|-------|-------|-------|
| 1.00 | .0000 | .0639 | .1250 | .1835 | .2398 |
| .90 | .0175 | .0351 | .0527 | .0703 | .0879 |
| .80 | .0351 | .0527 | .0703 | .0879 | .1055 |
| .70 | .0527 | .0703 | .0879 | .1055 | .1231 |
| .60 | .0703 | .0879 | .1055 | .1231 | .1407 |
| .50 | .0879 | .1055 | .1231 | .1407 | .1583 |
| .40 | .1055 | .1231 | .1407 | .1583 | .1759 |
| .30 | .1231 | .1407 | .1583 | .1759 | .1935 |
| .20 | .1407 | .1583 | .1759 | .1935 | .2111 |
| .10 | .1583 | .1759 | .1935 | .2111 | .2287 |
| 0.00 | .1759 | .1935 | .2111 | .2287 | .2463 |

| | | | | | |
|--------|--------|--------|--------|--------|--------|
| 12.336 | 12.419 | 12.497 | 12.399 | 11.989 | 12.039 |
|--------|--------|--------|--------|--------|--------|

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|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|
| Es 213-224 | 23.823 | 11.408 | 10.731 | 10.291 | 10.374 | 11.235 | 11.571 | 11.621 | 11.707 | 12.041 | 12.039 | 12.732 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|

| | | | | | | | | | | |
|----------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------------|
| R_o | 237-245 | 14.092 | 14.092 | 14.094 | 14.095 | 14.094 | 12.915 | 12.480 | 12.074 | 12.065 |
|----------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------------|

| P _{FW} | L = .0340 | P _{CB} = 11.579 | F _{T/F_{CB}} = 1.217 | W _C = 2.01 | Z = 80. | B = 29.54 |
|-----------------|-----------|--------------------------|---------------------------------------|-----------------------|---------|-----------|
| 12.23 | | | | | | |

ERun 30-4 C1 I1 S1 B1 Eng 2 $\alpha=10^\circ$ $\beta=0^\circ$ $m/\mu^* = .741$ 0.308

Pt/Fto 131-144

1.000 .999 1.000 .999 .993 .999 1.000 1.000 1.000 .995 .987 .970 .971

Cp 330-344

~~1.000~~ .999 .999 .999 .993 .999 .999 1.000 1.000 1.000 .995 .987 .970 .971

Pt/Fto 101-130

.999 .999 .999 .999 .999 .999 .999 .999 .999 .999 .999 .999 .999 .999

Ptc = 14.950 Ito/Ito = .992 R = .0546

Cp 310-320

.879 .879 .879 .879 .879 .879 .879 .879 .879 .879 .879 .879 .879 .879

Cp 321-329

.755 .755 .755 .755 .755 .755 .755 .755 .755 .755 .755 .755 .755 .755

Ps 301-309 12.972 14.517 11.442 11.963 12.207 12.380 12.459 12.554 12.613

Ps 201-205 12.340 12.421 12.506 12.404 11.905 12.037

Ps 207-212 11.546 11.629 11.683 11.633 11.537 11.439

Ps 213-224 13.447 11.009 10.421 10.103 10.247 11.379 11.958 11.671 11.704 12.344 12.781

Ps 225-236 14.405 12.234 10.924 10.118 9.738 10.692 11.113 11.143 11.249 12.332 12.853 13.195

Ps 237-245 14.096 14.096 14.096 14.096 14.096 12.917 12.479 12.076 11.661

Pew = 12.682 I = .0343 Pto = 12.578 Pto/Pto = 1.217 Wc = 2.01 T = 84. B = 29.84

Run 30-5 C1 I1 S1 B1 E1g 2 a--20' B.O' n/m--1.22 0.523

Pt/Pto 131-144

1.000 1.000 1.000 1.000 .993 .992 1.000 1.000 1.000 1.000 .999 .992 .970 .969

Cp 330-344

.005 -.250 -.240 -.170 .710 .324 .037 -.109 -.200 -.193 -.229 -.692 -.100 .464

Pt/Pto 101-130

.959 .959 .952 1.000 1.000 1.001 1.000 .999 .980
1.000 1.000 1.000 1.000 .996 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ftc = 14.978 Pto/Pto = .374 R = .0492

Cp 310-340

.545 .949 .777 .652 .394 .137 .100 .033 .009 -.017

Cp 321-329

.848 .542 .121 -.100 -.105 -.305 -.367 -.316 -.291

Ps 301-309

13.472 10.794 11.889 12.305 12.416 12.341 12.501 12.599 12.657

Fs 201-206

12.280 12.460 12.538 12.490 12.025 12.076

Ps 207-212

11.596 11.578 11.730 11.686 11.590 11.489

Ps 213-224

12.636 10.265 9.864 9.796 10.040 11.363 11.556 11.691 11.736 12.876 12.876 12.808

Ps 225-236

14.510 13.984 11.198 10.364 9.930 10.269 11.203 11.229 11.327 12.376 12.898 13.237

Ps 237-245

14.132 14.132 14.132 14.134 14.132 12.954 12.516 12.115 12.057

Pcw = 12.322

L = .0343 Pco = 11.628 Ptc/Pcw = 1.216 Wc = 2.00 T = 85. B = 29.84

Run 30-6 C1 I1 S1 B1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ $m/m^* = 7.21$ 0.308

Pt/Pto 131-144

1.000 .999 .996 .991 .984 .980 .999 .997 .992 .985 .979 .967 .969

Cp 330-344

~~167~~ .311 -.599 -.454 -.249 .423 -.243 -.598 -.747 -.651 -.534 -.386 -.663 -.312 -.483

Pt/Pto 101-130

.967 .970 .955 .937 1.000 1.001 1.001 1.001 .986 .947
1.000 1.001 1.000 1.000 .957 1.000 1.000 1.001 1.000
1.000 .981 1.000 1.001 1.000 1.000 1.000 1.000 1.000

Ptc = 14.923 Ptc/Pto = .990 K = .638

Cp 310-320

.987 ~~174~~ .476 .263 .136 -.095 -.146 -.134 -.137 -.103 -.056

Cp 321-323

.985 .936 .632 .422 .330 .131 -.011 -.046 -.109

Ps 301-309 11.583 14.413 11.023 11.496 11.862 12.260 12.427 12.526 12.583

Ps 201-206 12.320 12.395 12.463 12.380 11.967 12.017

Ps 207-212 11.521 11.603 11.656 11.607 11.514 11.416

Ps 213-224 14.178 11.814 11.055 10.468 10.467 11.350 11.571 11.663 11.682 12.820 ~~11.861~~ 12.769

Ps 225-236 14.009 12.249 10.353 9.645 n.g. 9.787 10.985 11.046 11.181 12.303 12.619 13.130

Ps 237-245 14.064 14.066 14.066 14.067 14.064 12.961 12.452 12.046 ~~11.994~~

Pcw = 12.257 L = .0332 Pcb = 11.553 Ptc/Pcw = 1.217 Wc = 2.00 T = 87. B = 29.84

Run 30-7 C1 I1 S1 E1 E2 2 $\alpha=10^\circ$ $\beta=0^\circ$ m/m = ~~711~~ 0.315 0.803

Pt/Pto 131-144

.339 .996 .332 .987 .981 .977 .998 .996 .991 .987 .982 .976 .965 .967

Cp 330-344

~~.255~~ -.378 -.656 -.477 -.256 .365 -.345 -.692 -.812 -.632 -.543 -.369 -.641 -.304 -.462

Pt/Pto 101-130

.970 .978 .954 .936 1.000 1.001 1.001 1.001 .983 .945
1.001 1.001 1.001 1.001 .952 1.001 1.001 1.001 1.001 1.001
1.001 .973 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Ptc = 14.917 Ptc/Pto = .970 K = .0653

Cp 310-320

.978 ~~.495~~ .371 .160 .043 -.158 -.167 -.143 -.138 -.090 -.045

Cp 321-329

.919 .928 .741 .525 .427 .204 .012 -.052 -.151

Ps 301-309 11.237 14.362 10.886 11.555 11.739 12.244 12.414 12.514 12.567

Ps 201-206 12.305 12.379 12.442 12.584 11.952 12.000

Ps 207-212 11.593 11.583 11.639 11.589 11.495 11.395

Ps 213-224 14.377 12.072 11.262 10.587 10.529 11.309 11.568 11.550 11.605 12.006 12.859 12.755

Ps 225-236 13.739 11.904 10.049 n.g. n.g. 9.621 10.908 10.940 11.145 12.231 12.791 13.075

Ps 237-245 14.055 14.055 14.056 14.058 14.055 12.836 12.437 12.029 ~~11.978~~

Pcw = 12.240 L = .0329 Fcb = 11.534 Ptc/Fcw = 1.219 Wc = 2.00 T = 59. B = 29.84

Run 30-8 C1 I1 S1 B1 Eng 2 $\alpha=20^\circ$ $\rho=0'$ $m/m^* = .711$ 0.301 0.309

Pt/Pto 131-144

.977 .993 .982 .985 .980 .977 .997 .995 .990 .986 .981 .976 .964 .957

Cp 330-344

~~.983~~ .472 -.704 -.457 -.268 .302 -.457 -.775 -.841 -.664 -.503 -.318 -.519 -.270 -.451

Pt/Pto 101-130

.972 .951 .922 .937 1.001 1.001 1.001 .996 .944 .947
1.001 1.001 1.000 .971 .965 1.001 1.001 1.001 1.001
.993 .983 1.001 1.001 1.001 1.001 1.001 1.001 1.001

Ptc = 14.871 Ptc/Pto = .987 K = .0000

Cp 310-320

.910 ~~.960~~ .939 .650 -.046 -.205 -.144 -.102 -.102 -.052 -.034

Cp 321-329

.651 .977 .551 .642 .545 .292 .016 -.100 -.219

Ps 301-309 11.297 14.456 14.515 10.776 11.146 12.133 12.352 12.455 12.512

Ps 201-205 12.243 12.317 12.394 12.314 11.863 11.524

Ps 207-212 11.422 11.504 11.563 11.504 11.414 11.317

Ps 213-224 14.504 12.344 11.475 10.685 10.542 11.197 11.520 11.593 11.600 12.746 ~~12.600~~ 12.698

Ps 225-236 13.123 11.217 n.g. n.g. n.g. 10.744 10.904 11.531 12.235 12.186 12.947

Ps 237-245 14.039 14.040 14.039 14.042 14.039 12.637 12.370 11.947 ~~11.799~~

Ptc = 12.180 L = .0340 Pcb = 11.454 Ptc/Ptc = 1.221 Wc = 2.00 T = 99. 3 = 29.83

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-.307 -.507

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Run 30-12 C1 I1 S1 B1 E46 2 α=0° β=10° m/m²=~~2.1~~ 0.304 0.811

Pt/Pto 131-144

.999 .998 .995 .987 .980 .998 .999 .999 .997 .990 .982 .966 .963

Cp 330-344

~~.999~~ -.119 -.477 -.430 -.276 .391 -.210 -.541 -.696 -.629 -.533 -.436 -.763 -.339 -.567

Pt/Pto 101-130

.959 .901 .956 .954 1.000 1.001 1.000 .917 .965 .954
1.000 1.000 1.000 .931 .961 1.000 1.000 1.000 1.000 .952
.970 .983 1.000 1.000 1.000 .908 .994 1.000 1.000 1.001

Ptc = 14.740 Ptc/Pto = .978 K = .1022

Cp 310-320

.791 ~~.513~~ .462 .269 .145 -.090 -.212 -.217 -.222 -.189 -.164

Cp 321-329

.545 1.003 .926 .742 .635 .392 .156 .070 -.034

Ps 301-309 10.918 12.215 14.094 10.777 11.373 12.011 12.087 12.124 12.242

Ps 201-206 12.088 12.206 12.257 12.157 11.712 11.754

Ps 207-212 11.213 11.334 11.411 11.310 11.207 11.103

Ps 213-224 13.772 11.212 10.436 9.832 9.863 11.031 11.208 11.322 11.353 12.474 ~~12.504~~ 12.504

Ps 225-236 12.807 10.843 n.g. n.g. 9.478 10.066 10.355 10.582 10.755 11.647 12.244 12.602

Ps 237-245 13.995 13.997 13.997 13.998 13.996 12.603 12.111 11.640 ~~11.647~~

Pcw = 12.029 L = .0369 Pcb = 11.265 Ptc/Pcw = 1.225 Wc = 1.99 T = 90. B = 29.83

Run 30-11 C1 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=4^\circ$ m/m² ~~0.815~~ 0.815 0.809

Pt/Pto 131-144

.999 .999 .998 .993 .995 .991 .999 .999 .998 .994 .997 .997 .997 .999

Sp 330-344

~~.999~~ .999 .998 .993 .995 .991 .999 .999 .998 .994 .997 .997 .997 .999

Pt/Pto 101-130

.999 .999 .998 .993 .995 .991 .999 .999 .998 .994 .997 .997 .997 .999

Ptc = 14.940 Ptc/Pto = .999 K = .0005

Cp 310-320

.999 .999 .998 .993 .995 .991 .999 .999 .998 .994 .997 .997 .997 .999

Cp 321-329

.999 .999 .998 .993 .995 .991 .999 .999 .998 .994 .997 .997 .997 .999

Ps 301-309

.999 .999 .998 .993 .995 .991 .999 .999 .998 .994 .997 .997 .997 .999

Ps 201-206

.999 .999 .998 .993 .995 .991 .999 .999 .998 .994 .997 .997 .997 .999

Ps 207-212

.999 .999 .998 .993 .995 .991 .999 .999 .998 .994 .997 .997 .997 .999

Ps 213-224

.999 .999 .998 .993 .995 .991 .999 .999 .998 .994 .997 .997 .997 .999

Ps 225-236

.999 .999 .998 .993 .995 .991 .999 .999 .998 .994 .997 .997 .997 .999

Ps 237-245

.999 .999 .998 .993 .995 .991 .999 .999 .998 .994 .997 .997 .997 .999

Ptc = 12.178 L = .0358 Feb = 11.448 Ptc/Ptc = 1.427 Wc = 2.02 T = 90. B = 29.83

Run 30-12 C1 I1 S1 A1 Eng 2 C=0° $\beta=10^\circ$ m/m² ~~0.216~~ 0.216 0.211

Ft/Pto 131-144

1.000 1.000 1.000 .996 .988 .982 .997 .997 .996 .993 .983 .972 .969 .970

Cp 330-344

~~1.000~~ -534 -740 -559 -368 .416 -184 -538 -703 -.635 -.540 -.438 -.831 -.384 -.583

Ft/Pto 101-130

.970 .964 .922 .934 .999 1.000 1.000 1.000 1.000 1.000 .967
1.000 1.000 1.000 1.000 1.000 .987 1.000 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.983 Ptc/Pto = .005 K = .0622

Cp 310-320

.968 ~~1.000~~ .525 .297 .155 -.089 -.172 -.157 -.216 -.184 -.163

Cp 321-329

.791 .355 -.057 -.191 -.209 -.276 -.254 -.139 -.170

Ps 301-309 13.546 10.990 11.931 12.473 12.375 12.290 12.410 12.518 12.574

Ps 201-206 12.200 12.350 12.453 12.358 11.931 11.974

Ps 207-212 11.474 11.559 11.614 11.564 11.468 11.534

Ps 213-224 14.040 11.781 11.121 10.671 10.706 11.458 11.710 11.765 11.750 11.808 ~~12.061~~ 12.743

Ps 225-236 14.828 13.747 11.983 11.125 10.499 10.833 11.339 11.351 11.389 12.314 12.849 13.230

Ps 237-245 13.997 13.997 13.996 13.999 13.997 12.877 12.427 12.025 ~~11.967~~

Pcv = 12.224 L = .0348 Pcb = 11.507 Ptc/Fcw = 1.225 Wc = 2.02 T = 90. B = 29.83

Run 30-13 C1 I1 S1 E1 Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ $m/m^2 = \text{21}$ 0.316

Pt/Pto 131-144

.929 1.000 .928 .922 .985 .980 .997 .997 .995 .991 .982 .973 .965 .967

Cp 330-344

~~104~~ -.546 -.746 -.540 -.326 .353 -.268 -.620 -.759 -.677 -.565 -.433 -.770 -.370 -.549

Pt/Pto 101-130

.972 .904 .983 .931 .955 1.000 1.000 1.000 1.000 .950
1.000 1.000 1.000 1.000 .975 1.000 1.000 1.000 1.000
1.000 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.956 Pts/Pto = .993 K = .0694

Cp 310-320

.981 ~~544~~ .442 .225 .090 -.136 -.177 -.150 -.197 -.155 -.121

Cp 321-329

.863 .470 .674 -.069 -.059 -.182 -.184 -.149 -.139

Ps 301-309 12.998 10.840 11.735 12.170 12.319 12.280 12.416 12.531 12.572

Ps 201-206 12.296 11.350 12.472 12.368 11.950 11.994

Ps 207-212 11.497 11.580 11.635 11.584 11.490 11.390

Ps 213-224 14.230 12.022 11.324 10.805 10.792 11.450 11.734 11.781 11.763 12.817 ~~12.866~~ 12.757

Ps 225-235 14.704 13.616 11.699 11.020 10.433 10.780 11.325 11.330 11.381 12.319 12.855 13.232

Ps 237-245 13.980 13.980 13.981 13.982 13.981 12.892 12.440 12.043 ~~11.987~~

Pcw = 12.241 L = .0349 Pcb = 11.529 Pts/Pcw = 1.222 Wc = 2.01 T = 91. B = 29.83

Run 30-14 C1 II S1 E1 Eng 2 a=4' $\beta=4^\circ$ $\pi/m' = \underline{212}$ 0.309

Pt/Pto 131-144

1.000 .399 .996 .991 .984 .380 .999 .999 .996 .992 .984 .977 .966 .958

Cp 330-344

~~674~~ -.371 -.648 -.476 -.265 .417 -.246 -.764 -.754 -.358 -.543 -.403 -.708 -.329 -.502

Pt/Pto 101-130

.968 .975 .965 .935 1.000 1.001 1.001 1.001 1.000 .947
1.000 1.000 1.000 1.000 1.000 .957 1.000 1.000 1.000 1.000
1.000 .985 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Pto = 14.984 Pto/Pto = .991 K = .0000

Cp 310-320

1.000 ~~515~~ .998 .269 .138 -.189 -.142 -.145 -.134 -.103 -.066

Cp 321-329

.974 .814 .439 .245 .171 .012 -.093 -.082 -.120

Ps 301-309 11.790 14.506 11.174 11.975 11.989 12.238 12.402 12.511 12.557

Ps 301-206 12.287 12.366 12.461 12.394 11.937 11.971

Ps 207-212 11.463 11.537 11.620 11.578 11.474 11.374

Ps 213-224 14.166 11.854 11.109 10.934 10.529 11.339 11.589 11.667 11.673 12.801 ~~12.879~~ 12.746

Ps 225-236 14.364 12.864 10.916 10.125 9.733 10.118 11.061 11.102 11.202 12.281 12.822 13.169

Ps 237-245 14.364 14.106 14.667 14.000 14.000 14.000 12.127 12.020 ~~11.966~~

Pto = 12.289 L = .0350 Pto = 11.914 Pto/Pto = 1.221 Wc = 2.00 T = 91. B = 29.83

Jan 30-1931 11 01 01 24 2 α 4° β 4° γ 4° 0.005 0.014

Pt/Pto 101-104

.999 .999 .997 .991 .984 .979 .999 .999 .998 .993 .986 .925 .966 .968

Op 330-344

~~.999~~ -.252 -.573 -.456 -.253 .412 -.257 -.606 -.751 -.657 -.542 -.403 -.699 -.323 -.515

Pt/Pto 101-130

.964 .945 .962 .944 1.000 1.001 1.001 .981 .978 .949
1.000 1.001 1.001 .995 .992 1.000 1.000 1.000 1.000
1.000 .972 1.000 1.000 1.000 1.000 .999 1.000 1.001

Ptc = 14.059 Pt / Pto = .988 K = .0575

Op 310-320

.928 ~~.928~~ .474 .254 .254 .130 -.099 -.173 -.165 -.167 -.129 -.092

Op 321-329

.931 1.014 .804 .593 .187 .257 .059 -.008 -.098

Is 301-309 11.005 13.895 14.589 11.160 11.600 12.153 12.348 12.430 12.490

.s 201-206 12.239 12.321 12.386 12.384 12.388 11.925

Is 207-212 11.415 11.502 11.500 11.507 11.409 11.310

Is 213-224 14.064 11.586 10.789 10.123 10.154 11.179 11.303 11.503 11.540 12.730 ~~11.730~~ 12.687

Is 225-235 13.405 11.534 9.646 n.s. n.s. 9.460 10.504 10.325 11.055 12.159 12.530 12.930

Is 237-245 14.010 14.011 14.012 14.014 14.016 12.858 12.362 11.934 ~~11.545~~

Pov = 11.178 L = .0330 Pev = 11.451 Ptc/Pev = 1.223 Wc = 2.00 T = 32. B = 29.34

Ann 30-10 31 11 01 01 Eng 2 $\alpha=4^\circ$ $\beta=-10^\circ$ $\lambda/\mu=1.000$ 0.797 0.814

10/10 131-144

.999 .998 .997 .993 .985 .979 .998 .999 .999 .995 .980 .965 .967

Op 300-344

~~.999~~ -.213 -.560 -.501 -.335 .351 -.295 -.525 -.764 -.674 -.563 -.774 -.365 -.592

10/10 101-130

.957 .811 .955 .917 1.000 1.001 1.000 .905 .960 .949
 1.000 1.000 1.000 .918 .955 .952 1.000 1.000 .939
 .960 .970 1.000 1.001 1.000 .980 .999 .999 1.000 1.000

F₁₀ = 14.691 P₁₀/1₁₀ = .975 K = .1127

Op 310-320

.781 ~~.564~~ .390 .179 .058 -.167 -.262 -.270 -.268 -.217 -.189

Op 321-329

.308 .903 .034 .770 .663 .008 .143 .031 -.092

Ps 301-309 14.630 13.035 13.055 14.544 11.190 11.875 11.933 11.969 12.115

Ps 301-309 11.963 12.095 12.153 12.047 11.589 11.620

Ps 307-312 11.050 11.207 11.296 11.161 11.050 10.943

Ps 313-324 13.917 11.355 10.547 9.829 9.801 10.911 11.109 11.209 11.220 12.343 ~~12.391~~ 12.391

Ps 325-335 12.555 10.597 n.g. n.g. 9.977 10.215 10.411 10.573 11.458 12.089 12.473

Ps 337-345 13.955 13.956 13.958 13.959 13.957 12.517 11.965 11.475 ~~11.566~~

F₁₀ = 11.911 L = .0304 P₁₀ = 11.119 F₁₀/F₁₀ = 1.233 W₁₀ = 2.00 T = 32. B = 29.84

Run 30-17 C1 I1 S1 D1 Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ m/m² ~~2.22~~ 0.800 0.017

It/Pto 101-144

.993 .998 .990 .996 .989 .982 .992 .999 .999 .992 .984 .966 .968

Cp 330-344

~~.982~~ -.025 -.387 -.354 -.229 .432 -.125 -.491 -.530 -.576 -.422 -.785 -.318 -.572

Pt/Pto 101-130

.957 .955 .956 .951 1.000 1.001 1.000 .923 .967 .959
1.000 1.001 1.002 .939 .986 1.000 1.001 1.001 .960
.976 .988 1.001 1.002 1.000 .992 .997 1.000 1.000 1.000

Pto = 14.773 Pto/Pto = .580 K = .0227

Cp 310-320

.756 ~~.514~~ .567 .373 .246 .001 -.154 -.163 -.163 -.153 -.133

Cp 321-329

.606 1.015 .907 .714 .607 .374 .163 .092 -.005

Ps 301-309 11.123 13.155 14.080 10.785 11.360 11.975 12.045 12.090 12.210

Ps 201-206 12.029 12.191 12.401 12.108 11.658 11.691

Ps 207-212 11.138 11.255 11.340 11.237 11.133 11.025

Ps 213-224 13.512 10.878 10.131 9.572 9.644 10.934 11.113 11.241 11.280 12.446 ~~12.469~~ 12.457

Ps 225-236 12.932 10.956 n.g. n.g. n.g. 9.945 10.274 10.523 10.711 11.627 12.221 12.582

Ps 237-245 13.977 13.978 13.977 13.981 13.978 12.591 12.071 11.590 ~~11.566~~

Rev = 11.973 L = .0367 Fco = 11.186 Pto/Pto = 1.234 Wc = 2.01 T = 91. B = 29.84

Ann 30-1E C1 11 S1 d1 Eng 2 $\alpha=4^\circ$ $\beta=4^\circ$ $\eta/\eta^* = \frac{2.11}{0.314}$

Pt/Pto 131-144

.999 .999 1.000 .997 .989 .983 .999 .999 1.000 .999 .992 .984 .968 .970

Cp 330-344

~~.976~~ -.114 -.435 -.367 -.212 .490 -.062 -.426 -.603 -.557 -.473 -.384 -.711 -.291 -.517

Pt/Pto 101-130

.961 .959 .951 .944 1.000 1.001 1.001 1.000 .967 .952
 1.000 1.001 1.001 1.001 .994 .961 1.000 1.001 1.001 1.001
 1.000 .965 1.001 1.001 1.000 1.000 1.000 1.000 1.000 1.001

Ptc = 14.912 Ptc/Pto = .990 K = .0578

Cp 310-320

.912 ~~.537~~ .653 .435 .300 .048 -.094 -.100 -.109 -.100 -.076

Cp 321-329

.932 .981 .703 .473 .316 .171 .021 -.005 -.069

Ps 301-309 11.460 14.034 10.736 11.290 11.706 12.136 12.312 12.403 12.467

Ps 201-206 12.180 12.275 12.335 12.258 11.835 11.870

Ps 207-212 11.351 11.438 11.496 11.440 11.341 11.240

Ps 213-224 13.671 11.110 10.388 9.877 9.756 11.132 11.323 11.448 11.492 12.716 ~~12.755~~ 12.657

Ps 225-236 13.755 11.872 9.870 n.g. n.g. n.g. 10.653 10.830 10.977 12.183 12.678 12.951

Ps 237-245 14.022 14.024 14.025 14.026 14.024 12.811 12.332 11.900 ~~11.890~~

Pcv = 12.127 L = .0335 Pcb = 11.364 Ptc/Pcv = 1.230 Wc = 2.02 T = 91. B = 29.84

Run 30-19 C¹ I1 S1 S1 Eng 2 C=-4° P=4° m/m* ~~0.812~~ 0.812

Pt/Pto 131-144

1.000 1.000 1.000 .997 .999 .993 .995 .993 .993 .998 .990 .982 .958 .970

Cp 330-344

~~0.944~~ -.316 -.575 -.453 -.483 .506 -.073 -.426 -.607 -.555 -.476 -.386 -.712 -.319 -.525

Pt/Pto 101-130

.965 .975 .964 .932 1.000 1.000 1.000 1.000 1.000 .954
1.000 1.000 1.000 1.000 .969 1.000 1.000 1.000 1.000 1.000
1.000 .997 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.951 Ptc/Pto = .992 K = .0630

Cp 310-320

.974 ~~0.944~~ .643 .424 .284 .028 -.099 -.095 -.153 -.121 -.104

Cp 321-329

.955 .638 .420 .038 -.016 -.143 -.188 -.156 -.163

Ps 301-309 12.645 14.556 11.470 11.961 12.181 12.234 12.391 12.494 12.543

Ps 201-205 12.458 12.333 12.436 12.335 11.913 11.949

Ps 207-212 11.449 11.534 11.550 11.538 11.440 11.337

Ps 213-224 15.823 11.434 10.773 10.337 10.408 11.345 11.569 11.552 11.561 12.785 ~~12.610~~ 12.725

Fs 225-236 14.581 13.144 11.256 10.414 9.920 10.239 11.138 11.143 11.225 12.270 12.815 13.175

Fs 237-245 14.021 14.022 14.024 14.025 14.022 12.959 12.405 11.937 ~~11.940~~

Fev = 12.204 L = .0350 Peb = 11.481 Ptc/Fev = 1.225 We = 2.01 T = 92. S = 29.84

Rm 30-20 CL IL SL EL Eng 2 $\alpha = 4^\circ$ $\beta = 10^\circ$ m/m* ~~771~~ 0.816 0.809

Pt/Pto 131-144
 1.000 1.000 1.000 .998 .991 .985 .997 .997 .997 .995 .986 .975 .971 .971 .971
 Cp 330-344
~~183~~ -.521 -.725 -.570 -.405 .460 -.096 -.445 -.625 -.581 -.504 -.417 -.863 -.389 -.618

Pt/Pto 101-130
 .968 .983 .941 .999 1.000 1.001 1.001 1.000 .980
 1.000 1.000 1.000 1.000 .999 1.000 1.000 1.000 1.000
 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.993 Ptc/Pto = .995 K = .0600

Cp 310-320
 .933 ~~547~~ .606 .370 .224 -.033 -.159 -.156 -.225 -.206 -.199

Cp 321-329
 .685 .228 -.186 -.318 -.325 -.376 -.341 -.266 -.230

Ps 301-309 13.739 11.237 12.168 12.419 12.463 12.319 12.438 12.542 12.609

Ps 201-206 12.305 12.373 12.482 12.391 11.968 12.001

Ps 207-212 11.513 11.598 11.650 11.603 11.509 11.405

Ps 213-224 13.824 11.546 10.942 10.576 10.659 11.490 11.724 11.786 11.780 12.833 ~~12.869~~ 12.764

Ps 225-236 14.853 13.862 12.118 11.253 10.608 10.940 11.395 11.409 11.442 12.347 12.875 13.255

Ps 237-245 13.995 13.996 13.997 13.999 13.996 12.906 12.452 12.052 ~~11.995~~

Pcv = 12.254 L = .0343 Pcb = 1.547 Ptc/Pcv = 1.224 Wc = 2.01 T = 92. B = 29.83

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Run 1-14 C1 12 S2 21 S25 2 C=0° S=0° E/m=0.338 0.375

Pt/Pto 131-144

1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Cp 330-344

1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Pt/Pto 101-130

1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.404 Ptc/Pto = .993 K = .0273

Cp 310-320

1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Cp 321-329

1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ps 301-309 13.944 13.385 16.301 13.512 13.538 13.982 13.980 13.973 13.981

Ps 201-206 13.995 13.971 13.970 13.967 13.913 13.922

Ps 207-212 13.905 13.837 13.848 13.820 13.809 13.796

Ps 213-224 13.563 13.553 13.556 13.552 13.551 13.567 13.616 13.688 13.756 13.950 14.009 14.439

Ps 225-236 13.236 13.392 13.610 13.719 13.742 13.744 13.751 13.754 14.362 13.865 13.966 14.023

Ps 237-245 14.502 14.326 14.134 13.695 14.306 14.365 14.016 14.166 14.070

Pcv = 13.954 L = .0050 Feb = 13.819 Ptc/Pcv = 1.032 Wc = .90 T = 58. B = 29.51

Run 1-26 CI I2 S2 BI Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ m/m* = .616 0.079

Pt/Pto 131-144

1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 .997 .999

Cp 330-344

.000 .000 6.652 35.161 .000 .000 .950 2.851 5.702 10.453 72.222 ~~11.696~~ 69.371 71.345

Pt/Pto 101-130

.936 .922 .959 .989 .931 .968 .949 .934 .971 .995
 .947 .986 .967 .943 .975 .999 1.000 .993 .988 .956
 .980 1.000 1.000 .996 .999 .982 .995 1.000 1.000 1.000

Ptc = 14.419 Ptc/Pto = .979 K = .0793

Cp 310-320

555.183 ~~36.216~~ 736.394 387.501 258.017 101.874 32.371 13.329 4.760 .000 .000

Cp 321-329

394.222 517.053 519.098 252.304 157.095 57.125 ~~10.473~~ ~~8.569~~ ~~8.569~~

Pt 301-309 12.684 14.694 10.840 11.161 ~~14.491~~ 12.741 12.726 12.651 12.701

Ps 201-206 12.777 12.775 12.758 12.641 12.403 12.460

Ps 207-212 12.059 12.095 12.140 12.126 12.103 12.040

Ps 213-224 n.g. 10.792 10.920 11.158 11.499 11.527 11.74 11.954 12.106 12.584 12.832 12.958

Ps 225-236 9.977 10.302 10.632 11.027 11.787 11.931 11.918 11.913 12.312 12.676 12.872

Ps 237-245 14.675 13.839 13.080 ~~11.889~~ 12.167 12.478 12.733 12.818 13.007

Pcv = 12.636 L = .0259 Pcb = 12.094 Ptc/Pcv = 1.141 Wc = 1.69 T = 71. B = 29.96

Run 1-21 C1 12 S2 B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ m/m²-. 0.792, 0.798

| | | | | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| Pt/Pto 131-144 | | | | | | | | | | | | | |
| 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .998 |
| Cp 330-344 | | | | | | | | | | | | | |
| -.000 | -.000 | -.000 | -.001 | .000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.002 | -.011 | -.002 |
| Pt/Pto 101-130 | | | | | | | | | | | | | |
| .928 | .892 | .936 | .960 | .984 | .985 | .975 | .915 | .951 | .975 | | | | |
| .998 | .999 | .996 | .934 | .753 | .994 | 1.000 | 1.000 | .999 | .952 | | | | |
| .962 | .999 | .999 | .999 | .999 | .982 | .990 | .999 | .999 | .999 | | | | |
| Ptc = 14.352 Ptc/Pto = .975 K = .1101 | | | | | | | | | | | | | |
| Cp 310-320 | | | | | | | | | | | | | |
| -.108 | -.002 | -.017 | -.009 | -.005 | -.002 | -.001 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 |
| Cp 321-329 | | | | | | | | | | | | | |
| -.094 | -.033 | -.012 | -.006 | -.004 | -.001 | -.000 | -.000 | -.000 | -.000 | | | | |
| Pa 301-309 | | | | | | | | | | | | | |
| 12.122 | 13.142 | 13.171 | 13.482 | 14.691 | 11.864 | 11.858 | 11.751 | 11.811 | | | | | |
| Pa 201-206 | | | | | | | | | | | | | |
| 11.808 | 11.755 | 11.726 | 11.846 | 11.554 | 11.439 | | | | | | | | |
| Pa 207-212 | | | | | | | | | | | | | |
| 10.779 | 10.826 | 10.924 | 10.912 | 10.830 | 10.737 | | | | | | | | |
| Pa 213-224 | | | | | | | | | | | | | |
| n.g. | n.g. | n.g. | n.g. | n.g. | 10.330 | 10.778 | 11.012 | 11.090 | 11.106 | 11.625 | 12.060 | 12.227 | |
| Pa 225-236 | | | | | | | | | | | | | |
| n.g. | n.g. | n.g. | n.g. | n.g. | 10.411 | 10.704 | 10.698 | 10.682 | 10.696 | 11.290 | 11.789 | 12.064 | |
| Pa 237-245 | | | | | | | | | | | | | |
| 14.681 | 13.655 | 12.584 | 12.414 | 11.109 | 11.54 | 11.882 | 11.960 | 12.243 | | | | | |
| Pcv = 11.688 L = .0283 Pcv = 10.835 Ptc/Pcv = 1.228 Wc = 1.99 T = 65. B = 29.94 | | | | | | | | | | | | | |

Run 2-3 C1 I2 S2 B1 Eng 2 $\alpha = -10^\circ$ $\beta = 0^\circ$ $m/m^* = .474$ 0.512

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ 1.000 1.000 1.000 1.000 1.000 1.000 .999 .997 ~~.991~~ .985

Cp 330-344

~~1.000~~ -.153 -.391 -.349 -.214 .569 .071 -.261 -.450 -.426 -.355 -.129 -.408 -.191 -.372

Pt/Pto 101-130

.991 .994 .995 .979 .997 .995 1.000 1.000 1.000 1.000 .991
1.000 1.000 1.000 1.000 1.000 .999 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.996 Ptc/Pto = .998 K = .0209

Cp 310-320

.972 .903 .711 .494 .385 .202 .058 -.058 -.141 -.118 ~~-.075~~

Cp 321-329

.602 .140 -.004 -.093 -.139 -.193 ~~-.061~~ ~~-.062~~ ~~-.061~~

Ps 301-309 14.195 13.511 ~~14.773~~ 14.051 14.139 14.132 14.137 14.130 14.136

Ps 201-206 14.146 14.143 14.104 14.098 14.018 14.031

Ps 207-212 13.827 13.826 13.856 13.852 13.844 13.813

Ps 213-224 13.859 13.212 13.112 13.335 13.772 13.881 13.930 13.938 13.937 14.095 14.235 14.285

Ps 225-236 14.657 14.162 13.642 13.704 14.395 14.474 14.459 14.454 14.441 14.443 14.458 14.524

Ps 237-245 14.804 14.621 14.263 ~~14.877~~ 13.772 13.961 14.14 14.175 14.268

Pcv = 14.090 L = .0085 Pcb = 13.836 Ptc/Pcw = 1.064 Wc = 1.27 T = 74. B = 30.11

Run 2-4 C1 I2 S2 B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $m/m^*=1.474$ 0.512

Pt/Pto 131-144

~~1.000~~ 1.009 1.009 ~~1.000~~ 1.009 1.009 1.009 1.009 1.009 1.009 1.009 1.007 ~~1.000~~ .998

Cp 330-344

~~1.000~~ .535 -.532 -.411 -.416 1.354 .080 .377 -.442 -.447 -.374 -.027 -.770 -.204 -.401

Pt/Pto 101-130

.997 1.003 .998 1.006 1.003 1.003 1.008 1.009 1.008 1.008 1.008 1.008
1.008 1.008 1.008 1.008 1.008 1.008 1.008 1.008 1.008 1.008
1.007 1.008 1.008 1.008 1.008 1.008 1.008 1.008 1.008 1.008

Ptc = 14.999 Ptc/Pto = 1.007 K = .0114

Cp 310-320

2.137 2.239 2.024 1.417 .962 .790 .542 .226 -.070 -.073 ~~.075~~

Cp 321-329

.575 -.483 -.668 -.804 -.302 -1.001 ~~.304~~ ~~.309~~ ~~.311~~

Ps 301-309 14.217 14.783 ~~14.751~~ 14.186 14.194 14.149 14.142 14.136 14.442

Ps 201-206 14.801 14.815 14.756 14.761 14.679 14.693

Ps 207-212 14.489 14.491 14.511 14.504 14.503 14.474

Ps 213-224 13.665 13.446 13.759 13.764 14.339 14.485 14.553 14.573 14.581 14.750 14.885 14.936

Ps 225-236 15.313 14.449 13.947 14.274 14.811 14.877 14.940 14.999 14.989 15.023 15.110 15.135

Ps 237-245 15.526 15.231 14.840 ~~14.714~~ 14.483 14.687 14.840 14.935 14.931

Pcv = 14.752 L = .0091 Pcb = 14.495 Ptc/Pcv = 1.017 Wc = .68 T = 75. B = 30.11

Run 2-5 C1 I2 S2 B1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ $m/m^* = .474$ 0.512

F_c/P_{to} 1.31-144

~~1.000~~ 1.000 1.000 ~~1.000~~ 1.000 .999 1.000 1.000 1.000 .999 .996 .993 ~~.989~~ .985

Cp 330-344

~~.988~~ -.336 -.581 -.448 -.230 .410 -.243 -.593 -.739 -.631 -.504 -.199 -.443 -.242 -.362

P_c/P_{to} 101-130

.993 .994 .985 .975 .998 .996 1.000 1.000 .998 .982
1.000 1.000 1.000 1.000 1.000 .992 1.000 1.000 1.000 1.000
1.000 .999 1.000 .999 1.000 1.000 1.000 1.000 1.000 1.000

$P_{tc} = 14.981$ $P_{tc}/P_{to} = .997$ $K = .0250$

Cp 310-320

.932 .643 .350 .210 .124 -.017 -.099 -.182 -.230 -.150 ~~-.059~~

Cp 321-329

.928 .569 .302 .220 .153 .053 ~~-.032~~ ~~-.032~~ ~~-.032~~

Ps 301-309 13.806 13.592 ~~14.74~~ 13.918 13.982 14.094 14.120 14.119 14.120

Ps 201-206 14.139 14.137 14.096 14.090 14.012 14.012

Ps 207-212 13.813 13.813 13.839 13.840 13.830 13.803

Ps 213-224 14.518 13.687 13.441 13.553 13.782 13.944 13.963 13.956 13.945 14.075 14.222 14.276

Ps 225-236 14.497 13.784 13.277 13.402 13.716 14.115 14.186 14.036 14.041 14.079 14.338 14.443

Ps 237-245 14.857 14.559 14.167 ~~14.005~~ 13.839 14.003 14.154 14.179 14.267

$P_{cv} = 14.081$ $L = .0085$ $P_{cb} = 13.823$ $P_{tc}/P_{cv} = 1.064$ $W_c = 1.26$ $T = 77.$ $B = 30.11$

Run 2-6 C1 I2 S2 B1 Eng 2 $\alpha=10^\circ$ $\beta=0^\circ$ $m/m^* = .474$ 0.512

Pt/Pto 31-144

~~1.000~~ 1.000 1.000 ~~1.000~~ 1.000 .997 1.000 1.000 .998 .996 .993 .990 ~~.988~~ .984

Cp 330-344

~~1.000~~ .997 1.000 1.000 1.000 .997 1.000 1.000 .989 .807 .667 .517 .203 ~~.144~~ .239 -.352

Pt/Pto 101-130

.994 .993 .982 .974 .998 .997 1.000 1.000 .990 .980
1.000 1.000 1.000 1.000 .998 .935 1.000 1.000 1.000 1.000
1.000 .997 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.969 Ptc/Pto = .996 K = .0254

Cp 310-320

.885 .501 .336 .123 .046 -.070 -.130 -.196 -.231 -.130 ~~-.059~~

Cp 321-329

.981 .676 .436 .326 .245 .117 ~~.064~~ ~~-.063~~ ~~-.063~~

Ps 301-309 13.599 13.543 ~~14.735~~ 13.698 13.887 14.068 14.092 14.086 14.094

Ps 201-206 14.115 14.112 14.073 14.065 13.986 13.993

Ps 207-212 13.784 13.783 13.808 13.907 13.798 13.773

Ps 213-224 14.662 13.805 13.514 13.572 13.739 13.736 13.949 13.937 13.923 14.057 14.206 14.251

Ps 225-236 14.476 13.568 13.229 13.346 13.64 14.042 14.109 13.988 13.999 14.045 14.281 14.400

Ps 237-245 14.878 14.549 14.194 ~~13.944~~ 13.817 13.982 14.139 14.163 14.243

Pcw = 14.057 L = .0086 Feb = 13.792 Ptc/Pcw = 1.065 Wc = 1.27 T = 78. B = 30.10

| | | | | | | | | | |
|----------------|----------------|--------------|-------------------|-------------------|---------|-----------------|-----------------|-----------------|--------|
| Pt/Pto | .98 | .995 | .999 | .997 | .995 | .992 | .990 | .988 | .984 |
| Cp 33C-344 | -662 | -.477 | -.236 | .261 | -.453 | -.768 | -.834 | -.648 | -.480 |
| | -.491 | | | | | | | | -.167 |
| | | | | | | | | | -.411 |
| | | | | | | | | | -.203 |
| | | | | | | | | | -.332 |
| Pt/Pto 101-130 | | | | | | | | | |
| .995 | .971 | .974 | .999 | .998 | 1.000 | .991 | .980 | .982 | |
| 1.000 | 1.000 | .996 | .990 | .992 | 1.000 | 1.000 | 1.000 | 1.000 | |
| .998 | .997 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | |
| Ptc = 14.946 | Ptc/Pto = .995 | K = .0295 | | | | | | | |
| Cp 310-320 | .375 | .240 | .037 | -.021 | -.105 | -.127 | -.171 | -.189 | -.073 |
| .775 | | | | | | | | | -.029 |
| Cp 321-329 | .815 | .592 | .440 | .336 | .174 | .109 | .103 | .110 | |
| .876 | | | | | | | | | |
| Ps 301-309 | 13.447 | 13.357 | 14.725 | 13.518 | 13.747 | 14.033 | 14.072 | 14.063 | 14.063 |
| Ps 201-206 | 14.021 | 14.072 | 14.041 | 14.033 | 13.949 | 13.957 | | | |
| Ps 207-212 | 13.740 | 13.740 | 13.768 | 13.765 | 13.755 | 13.730 | | | |
| Ps 213-224 | 14.513 | 13.956 | 13.616 | 13.608 | 13.761 | 13.906 | 13.928 | 13.907 | 13.867 |
| Ps 225-236 | 14.393 | 13.501 | 13.203 | 13.307 | 13.567 | 13.954 | 14.023 | 13.938 | 13.94 |
| Ps 237-245 | 14.878 | 14.54 | 14.162 | 13.999 | 13.801 | 13.966 | 14.125 | 14.146 | 14.226 |
| Pcv = 14.022 | L = .0089 | Peb = 13.750 | Ptc/Pcv = 1.066 | Wc = 1.27 | T = 78. | B = 30.10 | | | |

Run 2-8 C1 I2 S2 B1 Eng 2 $\alpha=0^\circ$ $\beta=-4^\circ$ $m/m^2=.474$ 0.513, 0.512

Pt Pto 331-144

~~1.000~~ 1.000 1.000 ~~1.000~~ 1.000 .999 1.000 1.000 1.000 1.000 .999 .996 ~~1.000~~ .985

Cp 330-344

~~1.000~~ -.198 -.481 -.404 -.209 .445 -.166 -.511 -.673 -.592 -.477 -.254 -.566 -.217 -.338

Pt/Pto 101-130

.992 .991 .981 .978 .999 .998 1.000 1.000 .988 .987
1.000 1.000 1.000 1.000 .998 .994 .999 1.000 1.000 1.000
1.000 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.966 Ptc/Pto = .997 K = .0216

Cp 310-320

.982 .719 .566 .280 .185 .034 -.058 -.148 -.210 -.157 ~~-.064~~

Cp 321-329

.982 .728 .482 .340 .259 .134 ~~-.027~~ ~~-.028~~ ~~-.028~~

Ps 301-309 13.666 13.532 ~~14.533~~ 13.728 13.928 14.085 14.112 14.105 14.106

Ps 201-206 14.113 14.112 14.076 14.072 13.992 13.998

Ps 207-212 13.792 13.791 13.520 13.814 13.807 13.778

Ps 213-224 14.376 13.573 13.351 13.493 13.739 13.905 13.934 13.928 13.920 13.995 14.152 14.214

Ps 225-236 14.171 13.417 13.198 13.255 13.518 13.976 13.948 13.864 13.974 13.937 14.128 14.405

Ps 237-245 14.853 14.486 14.094 ~~13.988~~ 14.134 14.14 14.161 14.158 14.220

Pev = 14.061 L = .0080 Pev = 13.300 Ptc/Pev = 1.064 μ_c = 1.27 T = 75. B = 30.09

Run 2-9 C1 I2 S2 B1 Eng 2 $\alpha=0^\circ$ $\beta=-10^\circ$ m/m² = ~~1.74~~ 0.513

Pt, 30 131-144

| | | | | | | | | | | |
|------|------------------|------|------|-------|-------|-------|------|------|-----------------|------|
| .999 | 1.000 | .998 | .996 | 1.000 | 1.000 | 1.000 | .998 | .995 | .987 | .983 |
|------|------------------|------|------|-------|-------|-------|------|------|-----------------|------|

Cp 330-344

| | | | | | | | | | | |
|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| .999 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|

Pt/Pto 101-130

| | | | | | | | | | |
|-------|-------|-------|------|-------|------|-------|------|-------|-------|
| .992 | .972 | .924 | .921 | 1.000 | .998 | 1.000 | .993 | .989 | .989 |
| 1.000 | 1.000 | 1.000 | .991 | .991 | .994 | .999 | .999 | .999 | .996 |
| .995 | .998 | .999 | .999 | .999 | .999 | 1.000 | .999 | 1.000 | 1.000 |

Ptc = 14.94h Ptc/Pto = .995 K = .0273

Cp 310-320

| | | | | | | | | | | |
|------|------|------|------|------|-------|-------|-------|-------|-------|------------------|
| .961 | .616 | .437 | .219 | .123 | -.017 | -.097 | -.181 | -.246 | -.219 | -.143 |
|------|------|------|------|------|-------|-------|-------|-------|-------|------------------|

Cp 321-329

| | | | | | | | | | |
|------|------|------|------|------|------|-----------------|-----------------|-----------------|-----------------|
| .918 | .900 | .695 | .560 | .466 | .302 | .071 | .072 | .071 | .071 |
|------|------|------|------|------|------|-----------------|-----------------|-----------------|-----------------|

Ps 301-309 13.435 13.424 ~~14.524~~ 13.515 13.755 14.024 14.054 14.057 14.063

Ps 201-206 14.087 14.079 14.056 14.049 13.953 13.967

Ps 207-212 13.757 13.757 13.789 13.784 13.775 13.749

Ps 213-224 14.398 13.594 13.348 13.467 13.743 13.673 13.396 13.885 13.870 14.087 14.231 14.274

Ps 225-236 14.390 14.194 13.422 13.255 13.495 13.632 13.590 13.827 13.842 13.928 14.119 14.400

Ps 237-245 14.841 14.541 14.057 ~~13.971~~ 13.637 13.910 14.119 14.175 14.255

Pcw = 14.034 L = .0083 Pcb = 13.769 Ptc/Pcw = 1.065 Wc = 1.26 T = 77. B = 30.09

Run 2-10 C1 I2 S2 B1 Eng 2 $\alpha=0^\circ$ $\beta=4^\circ$ $m/m^* = .474$ 0.512

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ 1.000 .999 1.000 1.000 1.000 .999 .996 .993 ~~1.000~~ .985

Cp 330-344

~~1.000~~ .375 -.590 -.461 -.262 .451 -.155 -.506 -.669 -.587 -.473 -.205 -.448 -.256 -.402

Pt/Pto 101-130

.992 .995 .994 .977 .993 .993 1.000 1.000 1.000 .985
1.000 1.000 1.000 1.000 .999 .997 1.000 1.000 1.000
.999 .999 .999 1.000 1.000 .999 .999 1.000 1.000

Ptc = 14.971 Ptc/Pto = .997 K = .0229

Cp 310-320

.981 .711 .528 .274 .174 .014 -.091 -.187 -.238 -.159 ~~1.000~~

Cp 321-329

.554 .096 -.013 -.054 -.090 -.133 ~~1.000~~ ~~1.000~~

Ps 301-309 14.099 13.549 ~~14.618~~ 13.997 14.098 14.115 14.135 14.125 14.127

Ps 201-206 14.145 14.141 14.109 14.104 14.031 14.035

Ps 207-212 13.833 13.834 13.858 13.859 13.850 13.825

Ps 213-224 14.343 13.548 13.350 13.510 13.822 13.929 13.963 13.964 13.958 14.102 14.241 14.285

Ps 225-236 14.963 14.562 13.992 13.751 13.599 13.827 13.893 13.825 13.841 13.917 14.104 14.400

Ps 237-245 14.854 13.774 13.316 ~~13.752~~ 13.313 13.792 14.066 14.156 14.254

Pcv = 14.094 L = .0076 Pcv = 13.843 Ptc/Pcv = 1.062 Wc = 1.24 T = 78. B = 30.08

Run 2-11 C1 I2 S2 B1 Eng 2 $\alpha=0^\circ$ $\beta=10^\circ$ $m/m^*=1.474$ 0.513

Pt/Pto 131-144

~~.995~~ .999 .999 ~~.995~~ .999 .997 1.000 1.000 1.000 .999 .996 .993 ~~.987~~ .984

Cp 330-344

~~.062~~ -.558 -.718 -.559 -.367 .401 -.179 -.526 -.688 -.609 -.498 -.431 -.748 -.336 -.520

Pt/Pto 101-130

.992 .998 .999 .980 .997 .991 1.001 1.001 1.000 .992
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.990 Ptc/Pto = .998 K = .0201

Cp 310-320

.94 .713 .468 .228 .120 -.053 -.175 -.270 -.320 -.219 ~~.148~~

Cp 321-329

~~.101~~ -.433 -.372 -.344 -.339 -.316 ~~.056~~ ~~.055~~ ~~.056~~

Ps 301-309 14.275 13.472 ~~14.617~~ 14.072 14.137 14.116 14.132 14.116 14.125

Ps 201-206 14.131 14.126 14.089 14.087 14.010 14.017

Ps 207-212 13.810 13.814 13.836 13.836 13.827 13.800

Ps 213-224 14.195 13.410 13.238 13.424 13.797 13.887 13.930 13.932 14.078 14.230 14.273

Ps 225-236 14.961 14.550 13.983 13.785 13.696 13.883 13.941 13.880 13.896 13.947 14.114 14.367

Ps 237-245 14.798 13.768 13.316 ~~13.621~~ 13.336 13.791 14.056 14.14 14.240

Pcv = 14.077 L = .0081 Pcb = 13.820 Ptc/Pcv = 1.065 Wc = 1.27 T = 81. B = 30.08

Run 2-12 C1 I2 S2 B1 Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ m/m² = .174 0.512, 0.514

| | | | | | | | | | | | | | | |
|----------------|-----------------|-----------------|-------------------|-------------------|---------|-----------|------------------|------------------|------------------|--------|------------------|--------|-------|-------|
| Pt/Ptc 131-144 | .999 | .999 | .999 | .996 | 1.000 | 1.000 | .999 | .998 | .995 | .992 | .986 | .983 | | |
| Cp 330-344 | .662 | -.564 | -.723 | -.536 | -.325 | .355 | -.261 | -.610 | -.756 | -.528 | -.437 | -.755 | -.330 | -.500 |
| Pt/Pto 101-130 | | | | | | | | | | | | | | |
| .993 | .997 | .996 | .980 | .995 | .990 | 1.000 | 1.000 | 1.000 | .987 | | | | | |
| .999 | .999 | .999 | 1.000 | .999 | .998 | .999 | .999 | .999 | .999 | | | | | |
| .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | | | | | |
| Ptc = 14.969 | Ptc/Pto = .997 | K = .0195 | | | | | | | | | | | | |
| Cp 310-320 | .893 | .626 | .411 | .171 | .072 | -.089 | -.193 | -.267 | -.306 | -.127 | -.127 | | | |
| Cp 321-329 | .162 | -.219 | -.214 | -.204 | -.210 | -.205 | -.052 | -.052 | -.052 | | | | | |
| Ps 301-309 | 14.144 | 13.472 | 14.595 | 13.995 | 14.077 | 14.075 | 14.097 | 14.085 | 14.090 | | | | | |
| Ps 201-206 | 14.111 | 14.107 | 14.071 | 14.066 | 13.990 | 13.996 | | | | | | | | |
| Ps 207-212 | 13.786 | 13.786 | 13.811 | 13.812 | 13.802 | 13.775 | | | | | | | | |
| Ps 213-224 | 14.345 | 13.515 | 13.304 | 13.456 | 13.759 | 13.991 | 13.923 | 13.920 | 13.913 | 14.060 | 14.204 | 14.251 | | |
| Ps 225-236 | 14.812 | 14.052 | 13.500 | 13.471 | 13.640 | 13.917 | 13.946 | 14.031 | 14.016 | 14.001 | 14.142 | 14.357 | | |
| Ps 237-245 | 14.758 | 14.316 | 13.990 | 13.750 | 13.628 | 13.889 | 14.092 | 14.146 | 14.239 | | | | | |
| Pcv = 14.057 | L = .0081 | Pcb = 13.796 | Ptc/Pcv = 1.065 | Wc = 1.26 | T = 83. | B = 30.07 | | | | | | | | |

Run 2-14 C1 I2 S2 B1 Eng 2 $\alpha=4^\circ$ $\beta=-4^\circ$ $m/m^* = .474$ 0.513

Pt/Pto 131-144

~~.988~~ 1.000 1.000 ~~1.000~~ 1.000 .998 1.000 1.000 1.000 1.000 .998 .995 ~~.996~~ .984

Cp 330-344

~~.987~~ -.269 -.545 -.444 -.231 .403 -.249 -.594 -.736 -.633 -.504 -.259 -.570 -.229 -.344

Pt/Pto 101-130

.992 .987 .984 .979 .993 .998 1.000 .999 .990 .985
1.000 1.000 1.000 1.000 .996 .993 .999 1.000 1.000 1.000
.999 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.949 Ftc/Pto = .996 K = .0223

Cp 310-320

.930 .618 .513 .204 .117 -.027 -.096 -.177 -.232 -.166 ~~-.086~~

Cp 321-329

.973 .785 .557 .403 .314 .175 ~~.032~~ ~~.033~~ ~~.032~~

Ps 301-309 13.536 13.477 ~~14.551~~ 13.628 13.828 14.040 14.068 14.067 14.068

Ps 201-206 14.078 14.073 14.034 14.030 13.948 13.955

Ps 207-212 13.744 13.743 13.759 13.770 13.759 13.732

Ps 213-224 14.476 13.639 13.381 13.480 13.705 13.876 13.876 13.876 13.925 14.093 14.152

Ps 225-236 13.969 13.292 13.017 13.129 13.372 13.767 13.812 13.885 13.903 13.953 14.095 14.302

Ps 237-245 14.904 14.764 14.425 ~~13.614~~ 14.075 14.082 14.082 14.082 14.142

Pcv = 14.020 L = .0087 Pcb = 13.753 Ptc/Pcv = 1.066 Wc = 1.27 T = 86. B = 30.06

Run 2-15 C1 I2 S2 B1 Eng 2 $\alpha=4^\circ$ $\beta=-10^\circ$ m/m² = .474 0.513

Pt, Pto 131-144

~~.999~~ .999 .999 ~~1.000~~ .999 .996 1.000 1.000 1.000 .999 .998 .994 .986- .983

Cp 330-344

~~-.050~~ -.225 -.542 -.489 -.293 .34 -.287 -.613 -.751 -.653 -.528 -.492 -.975 -.254 -.366

Pt/Pto 101-130

.951 .965 .981 .977 1.000 .999 1.000 .974 .986 .985
1.000 1.000 1.000 .982 .988 .991 1.000 1.000 1.000 .990
.991 .998 1.000 1.000 1.000 .998 .999 1.000 1.000 1.000

Ptc = 14.901 Ptc/Pto = .993 K = .034

Cp 310-320

.843 .533 .345 .138 .04 -.095 -.156 -.233 -.293 -.241 -.167

Cp 321-329

.825 .952 .589 .489 .312 -.072 -.071

Ps 301-309 13.186 13.223 14.780 13.333 13.665 13.930 13.961 13.960 13.981

Ps 201-206 14.010 13.996 13.977 13.966 13.872 13.873

Ps 207-212 13.650 13.650 13.634 13.678 13.668 13.640

Ps 213-224 14.440 13.581 13.302 13.387 13.607 13.789 13.804 13.786 13.770 13.908 14.071 14.131

Ps 225-236 13.819 13.072 13.189 13.184 13.347 13.645 13.674 13.755 13.780 13.926 14.062 14.260

Ps 237-245 14.880 14.935 14.673 13.673 14.064 14.071 14.082 14.075 14.150

Pcv = 13.949 L = .0093 Pcb = 13.662 Ptc/Pcv = 1.068 Wc = 1.28 T = 86. B = 30.06

Run 2-15r C1 I2 S2 B1 Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ m/m² = .~~274~~ 0.514

Pt/Pto 131-144
~~.999~~ .999 .999 ~~.998~~ .998 .995 1.000 1.000 1.000 1.000 1.000 .998 .994 .986 .983

Cp 330-344
 -.036 -.219 -.531 -.478 -.281 .34 -.280 -.608 -.74 -.645 -.520 -.489 -.970 -.24 -.348

Pt/Pto 101-130
 .991 .967 .982 .978 1.000 .999 1.000 .975 .986 .984
 1.000 1.000 1.000 .983 .988 .991 1.000 1.000 1.000 .990
 .992 .998 1.000 1.000 1.000 .998 .999 .999 1.000 1.000

Ptc = 14.872 Ptc/Pto = .993 K = .0332

Cp 310-320
 .829 .506 .314 .134 .042 -.086 -.154 -.231 -.288 -.237 -.162

Cp 321-329
 .825 .891 .729 .586 .483 .312 -.060 -.062 -.060

Ps 301-309 13.214 13.254 ~~14.507~~ 13.351 13.663 13.926 13.960 13.952 13.971

Ps 201-206 14.005 13.988 13.965 13.959 13.862 13.870

Ps 207-212 13.655 13.658 13.692 13.680 13.674 13.643

Ps 213-224 14.440 13.602 13.327 13.407 13.622 13.796 13.810 13.791 13.772 13.910 14.070 14.132

Ps 225-236 13.828 13.087 13.200 13.194 13.287 13.289 13.308 13.357 13.428 13.828 13.990 14.076

Ps 237-245 14.774 14.912 14.662 ~~14.640~~ 14.069 14.074 14.084 14.073 14.146

Pcv = 13.941 L = .6096 Pcb = 13.667 Ptc/Pcv = 1.067 Wc = 1.29 T = 68. B = 30.00

| Pt/Pto 131-144 | .999 | .999 | .998 | .997 | 1.000 | 1.000 | .999 | 1.000 | .999 | .996 | .987 | .983 |
|----------------|-----------------|-----------------|-------------------|-------------------|------------------|------------------|-----------------|------------------|-----------------|-----------------|------------------|-----------------|
| Cp 330-344 | .999 | .999 | .998 | .997 | 1.000 | 1.000 | .999 | 1.000 | .999 | .996 | .987 | .983 |
| Pt/Pto 101-130 | .991 | .775 | .985 | .982 | 1.000 | .999 | 1.000 | .987 | .990 | .990 | | |
| | 1.000 | 1.000 | 1.000 | .996 | .993 | .995 | .999 | 1.000 | 1.000 | .999 | | |
| | .998 | .999 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | |
| Ptc = 14.910 | Ptc/Pto = | .996 | K = | .0255 | | | | | | | | |
| Cp 310-320 | .902 | .740 | .574 | .316 | .217 | .060 | -.036 | -.126 | -.198 | -.185 | -.117 | |
| Cp 321-329 | .933 | .889 | .696 | .533 | .439 | .284 | .679 | .080 | .078 | | | |
| Ps 301-309 | 13.432 | 13.383 | 14.526 | 13.510 | 13.764 | 13.986 | 14.007 | 13.997 | 14.008 | | | |
| Ps 201-206 | 14.025 | 14.012 | 13.977 | 13.978 | 13.885 | 13.895 | | | | | | |
| Ps 207-212 | 13.584 | 13.683 | 13.716 | 13.711 | 13.700 | 13.668 | | | | | | |
| Ps 213-224 | 14.121 | 13.357 | 13.161 | 13.337 | 13.689 | 13.783 | 13.818 | 13.811 | 13.801 | 13.955 | 14.108 | 14.166 |
| Ps 225-236 | 14.026 | 13.168 | 13.121 | 13.146 | 13.252 | 13.340 | 13.419 | 13.519 | 13.611 | 13.902 | 14.029 | 14.107 |
| Ps 237-245 | 14.770 | 14.908 | 14.657 | 14.586 | 14.067 | 14.081 | 14.107 | 14.106 | 14.177 | | | |
| Pcv = 13.962 | L = | .0094 | Peb = | 13.694 | Ptc/Pcv = | 1.068 | Wc = | 1.29 | T = | 75. | B = | 30.00 |

Run 2-17 C1 I2 S2 B1 Eng 2 $\alpha = -4^\circ$ $\beta = -4^\circ$ $m/m^* = .474$ 0.511

Pt/Pto 131-144

~~1.000~~ 1.000 ~~1.000~~ 1.000 .999 1.000 1.000 1.000 1.000 1.000 .997 ~~.989~~ .985

Cp 330-344

~~.017~~ -.131 -.413 -.359 -.184 .487 -.078 -.421 -.593 -.537 -.437 -.241 -.568 -.197 -.340

Pt/Pto 101-130

.991 .991 .982 .978 .999 .997 1.000 1.000 .994 .988
1.000 1.000 1.000 1.000 .999 1.000 1.000 1.000 1.000
.999 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.924 Ptc/Pto = .997 K = .0218

Cp 310-320

.988 .790 .606 .372 .268 .108 -.005 -.104 -.173 -.137 ~~-.075~~

Cp 321-329

.961 .645 .399 .278 .200 .089 ~~-.037~~ ~~-.035~~ ~~-.035~~

Ps 301-309 13.740 13.474 ~~14.526~~ 13.733 13.922 14.035 14.053 14.04 14.052

Ps 201-206 14.057 14.052 14.007 14.010 13.925 13.937

Ps 207-212 13.732 13.727 13.761 13.758 13.747 13.719

Ps 213-224 14.130 13.374 13.193 13.375 13.731 13.827 13.866 13.861 13.857 14.007 14.152 14.205

Ps 225-236 14.478 13.567 13.078 13.128 13.315 13.730 13.802 13.837 13.854 13.940 14.082 14.151

Ps 237-245 14.943 14.731 14.386 ~~14.373~~ 13.893 14.000 14.104 14.127 14.204

Pcv = 13.998 L = .0088 Pcb = 13.741 Ptc/Pcv = 1.066 Wc = 1.28 T = 77. B = 29.99

Run 2-18 C1 I2 S2 B1 Eng 2 $\alpha = -4^\circ$ $\beta = -4^\circ$ $m/m^* = .474$ 0.513

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ 1.000 1.000 .999 1.000 1.000 1.000 .999 .997 ~~.998~~ .985

Cp 330-344

~~.016~~ -.127 -.406 -.354 -.180 .488 -.075 -.414 -.587 -.530 -.431 -.238 -.559 -.193 -.337

Pt/Pto 101-130

.992 .991 .982 .978 .999 .998 1.000 1.000 .994 .987
1.000 1.000 1.000 1.000 .999 .995 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.927 Ptc/Pto = .997 K = .0221

Cp 310-320

1.001 .795 .616 .373 .272 .110 -.001 -.102 -.171 -.134 -.070

Cp 321-329

.996 .651 .415 .283 .206 .093 ~~.036~~ ~~.034~~ ~~.036~~

Ps 301-309 13.722 13.460 ~~14.537~~ 13.715 13.911 14.025 14.041 14.034 14.041

Ps 201-206 14.04 14.041 13.994 14.000 13.913 13.924

Ps 207-212 13.717 13.716 13.745 13.742 13.731 13.702

Ps 213-224 14.112 13.353 13.171 13.356 13.716 13.815 13.851 13.845 13.995 14.141 14.196

Ps 225-236 14.465 13.546 13.053 13.106 13.295 13.713 13.788 13.825 13.840 13.929 14.073 14.144

Ps 237-245 14.949 14.721 14.372 ~~14.663~~ 13.877 13.988 14.093 14.117 14.196

Pcv = 13.987 L = .0090 Pev = 13.725 Ptc/Pev = 1.067 Wc = 1.28 T = 78. B = 29.99

Run 2-20 C1 I2 S2 B1 Eng 2 $\alpha = 4^\circ$ $\beta = 10^\circ$ $m/m^* = .574$ 0.512

Pt/Pto 131-144

~~.999~~ .999 .999 .998 .998 1.000 1.000 1.000 1.000 .997 .994 .984

Cp 330-344

~~.999~~ .999 .999 .998 .998 1.000 1.000 1.000 1.000 .997 .994 .984

Pt/Pto 101-130

.991 .997 .999 .982 .996 .991 1.000 1.000 1.000 .994
 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.933 Ptc/Pto = .998 K = .0176

Cp 310-320

.883 .760 .576 .293 .182 -.006 -.151 -.259 -.318 -.241 -.167

Cp 321-329

~~.325~~ .611 .527 .460 .446 .411 .371 .370

Ps 301-309 14.273 13.401 14.537 14.026 14.078 14.053 14.061 14.04 14.054

Ps 201-206 14.062 14.053 14.008 14.014 13.929 13.942

Ps 207-212 13.734 13.731 13.763 13.760 13.749 13.719

Ps 213-224 13.910 13.179 13.049 13.266 13.710 13.797 13.846 13.851 13.84 14.008 14.155 14.207

Ps 225-236 14.905 14.522 13.937 13.777 13.894 13.971 13.979 14.001 13.983 13.961 14.089 14.158

Ps 237-245 14.647 13.695 13.219 13.848 13.200 13.689 13.781 14.070 14.170

Pcw = 14.001 L = .0089 Pcb = 13.743 Ptc/Pcw = 1.067 Wc = 1.28 T = 81. B = 29.98

Run 3-5 C1 I2 S2 B1 Eng 2 $\alpha=4^\circ$ $\mu=0^\circ$ $m/\pi^* = .0516$ 0.662

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ 1.000 .999 1.000 1.000 .999 .996 .992 .987 .984

Cp 330-344

~~1.000~~ -.351 -.615 -.493 -.313 .407 -.259 -.642 -.780 -.692 -.572 -.347 -.878 -.382 -.735

Pt/Pto 101-130

.987 .985 .968 .955 .938 .935 1.000 1.000 .979 .966
1.000 1.000 1.000 1.000 .994 .980 1.000 1.000 1.000 1.000
1.000 .995 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Pto = 14.809 Ptc/Pto = .993 K = .041

Cp 310-320

.897 .937 .755 .460 .332 .124 -.017 -.124 -.193 -.135 -.079

Cp 321-329

.963 .897 .619 .434 .331 .175 -.045 -.018 -.018

Ps 301-309 12.489 12.241 ~~13.072~~ 12.468 12.871 13.214 13.250 13.236 13.252

Ps 201-206 13.247 13.240 13.127 13.168 13.017 13.025

Ps 207-212 12.647 12.647 12.677 12.689 12.674 12.620

Ps 213-224 12.939 11.927 11.654 11.970 12.655 12.829 12.901 12.893 12.879 13.155 13.428 13.526

Ps 225-236 13.621 12.220 11.474 11.599 11.977 12.557 12.713 12.804 12.860 13.061 13.303 13.424

Ps 237-245 14.896 14.165 13.490 ~~12.970~~ 12.741 13.037 13.294 13.350 13.503

Pev = 13.137 L = .0155 Peb = 12.659 Ptc/Pev = 1.127 Wc = 1.64 T = 90. B = 29.87

Run 3-6 C1 I2 S2 B1 Eng 2 $\alpha=10^\circ$ $\beta=0^\circ$ $m/m^*=0.662$

| | | | | | | | | | | | |
|---|-----------------|-------------------|-------------------|-----------------|--------|-----------------|-----------------|-----------------|-----------------|-----------------|---|
| Pt/Pto 131-144 | | | | | | | | | | | |
| 1.000 | 1.000 | 1.000 | 1.000 | .998 | 1.000 | 1.000 | .999 | .997 | .993 | .990 | .986 .984 |
| Cp 330-344 | | | | | | | | | | | |
| .644 | .414 | .666 | .512 | .316 | .345 | .357 | .713 | .840 | .713 | .577 | .341 .856 .370 .706 |
| Pt/Pto 101-130 | | | | | | | | | | | |
| .988 | .971 | .963 | .955 | .947 | .995 | .999 | .993 | .979 | .966 | | |
| 1.000 | 1.000 | 1.000 | .999 | .989 | .980 | 1.000 | 1.000 | 1.000 | 1.000 | | |
| .999 | .995 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | |
| Pto = 14.796 Pto/Pto = .992 K = .048 | | | | | | | | | | | |
| Cp 310-320 | | | | | | | | | | | |
| .935 | .862 | .556 | .373 | .258 | .071 | .048 | .139 | .190 | .115 | .058 | |
| Cp 321-329 | | | | | | | | | | | |
| .827 | .923 | .687 | .520 | .404 | .237 | .059 | .051 | .051 | | | |
| Ps 301-309 | | | | | | | | | | | |
| 12.267 | 12.133 | 13.866 | 12.290 | 12.751 | 13.173 | 13.219 | 13.210 | 13.225 | | | |
| Ps 201-206 | | | | | | | | | | | |
| 13.228 | 13.219 | 13.104 | 13.152 | 12.997 | 13.005 | | | | | | |
| Ps 207-212 | | | | | | | | | | | |
| 12.623 | 12.625 | 12.650 | 12.665 | 12.651 | 12.598 | | | | | | |
| Ps 213-224 | | | | | | | | | | | |
| 13.267 | 12.144 | 11.900 | 12.057 | 12.674 | 12.832 | 12.887 | 12.870 | 12.850 | 13.124 | 13.402 | 13.505 |
| Ps 225-236 | | | | | | | | | | | |
| 13.385 | 12.047 | 11.551 | 11.733 | 11.953 | 12.261 | 12.458 | 12.606 | 12.719 | 13.04 | 13.276 | 13.397 |
| Ps 237-245 | | | | | | | | | | | |
| 14.201 | 14.174 | 13.502 | 14.874 | 12.745 | 13.033 | 13.277 | 13.325 | 13.477 | | | |
| Pev = 13.118 L = .0156 Pev = 12.635 Pto/Pev = 1.128 We = 1.64 T = 91. B = 29.87 | | | | | | | | | | | |

Run 3-7 C1 I2 S2 B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $m/m^* = .610$ 0.664

Pt/Pto 131-144

~~1.660~~ 1.000 1.000 ~~1.450~~ .999 .996 .999 .999 .997 .995 .992 .989 .986 -.983

Cp 330-344

~~1.093~~ -.508 -.716 -.525 -.338 .278 -.470 -.795 -.873 -.702 -.542 -.305 -.842 -.342 -.706

Pt/Pto 101-130

.987 .94 .964 .962 .998 .995 1.000 .964 .974 .975
1.000 1.000 1.000 .976 .981 .982 1.000 1.000 1.000 .990
.991 .993 1.000 .999 1.000 .999 1.000 1.000 1.000 1.000

Ptc = 14.744 Ptc/Pto = .989 K = .0533

Cp 310-320

.962 .765 .554 .300 .192 .032 -.050 -.117 -.155 -.065 -.038

Cp 321-329

.435 .892 .716 .587 .473 .267 -.101 -.101

Ps 301-309 12.067 11.711 ~~11.875~~ 11.924 12.586 13.075 13.124 13.105 13.142

Ps 201-206 13.165 13.141 13.059 13.089 12.924 12.732

Ps 207-212 12.535 12.541 12.575 12.586 12.568 12.510

Ps 213-224 13.583 12.359 11.928 12.099 12.603 12.791 12.823 12.788 12.754 13.016 13.308 13.421

Ps 225-236 12.893 11.801 11.903 11.84 12.043 12.079 12.118 12.203 12.317 12.906 13.174 13.312

Ps 237-245 14.901 14.172 13.495 ~~12.639~~ 12.719 12.969 13.212 13.250 13.406

Pcv = 13.051 L = .0165 Pcb = 12.552 Ptc/Pcv = 1.130 Wc = 1.64 T = 91. B = 29.86

Run 3-3 C1 I2 S2 B1 Eng 2 A=C° $\beta=10^\circ$ m/m²=510 0.661

Pt/Pto 131-144

~~1.777~~ .999 .999 ~~1.666~~ .999 .998 1.000 1.000 1.000 1.000 .999 .995 .984 .983

Cp 330-344

~~1.054~~ -.161 -.430 -.465 -.331 .380 -.222 -.563 -.725 -.566 -.563 -1.402 -.369 -.714

Pt/Pto 101-130

.383 .944 .770 .963 1.000 .996 1.000 .956 .977 .974
1.000 1.000 1.000 .779 .380 1.000 1.000 1.000 .984
.988 .998 1.000 1.000 1.000 .998 .999 1.000 1.000 1.000

Ptc = 14.736 Pt_c/Pto = .983 K = .0600

Cp 310-320

.673 .777 .657 .408 .283 .078 -.040 -.142 -.223 -.217 -.181

Cp 321-329

.456 .981 .850 .698 .588 .383 -.076 -.079 -.079

Ps 301-309 11.94 11.840 ~~13.844~~ 12.024 12.673 13.042 13.120 13.105 13.141

Ps 201-206 13.168 13.146 13.073 13.100 12.930 12.937

Ps 207-212 12.547 12.552 12.588 12.595 12.580 12.521

Ps 213-224 12.757 11.807 11.543 11.859 12.578 12.729 12.788 12.766 12.740 13.012 13.299 13.413

Ps 225-236 12.756 11.670 11.824 11.833 12.059 12.082 12.101 12.163 12.255 12.863 13.160 13.304

Ps 237-245 14.761 14.694 14.171 ~~14.771~~ 13.146 13.218 13.283 13.263 13.424

Pow = 13.059 L = .0162 Pcb = 12.5/4 Ptc/Pcv = 1.128 Wc = 1.63 T = 93. B = 20.86

| | | | | | | | | | | | |
|--|-----|------|----|----|----|----|-------|-----|------|----------------------|-------|
| | Run | 3-10 | C1 | I2 | S2 | B1 | Eng 2 | .C° | β=4° | m/m = 610 | 0.663 |
|--|-----|------|----|----|----|----|-------|-----|------|----------------------|-------|

It/Pto 131-144

[illegible]

CP 330-344

| | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -.008 | -.393 | -.621 | -.499 | -.330 | .440 | -.180 | -.540 | -.714 | -.648 | -.552 | -.352 | -.852 | -.391 | -.765 |
|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

Et/Pto 101-130

| Year | 1986 | 1990 | 1977 | 1959 | 1933 | 1941 | 1900 | 1900 | 1900 |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1986 | .386 | .990 | .977 | .959 | .933 | .941 | 1.000 | 1.000 | .968 |
| 1990 | .600 | 1.000 | 1.000 | 1.000 | 1.000 | .986 | 1.000 | 1.000 | 1.000 |
| 1977 | .799 | .999 | .999 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

$$P_{TC} = 14.826 \quad P_{TC}/P_{\omega} = .395 \quad K = .0407$$

CP 310-320

| | | | | | | | | |
|------|------|------|------|------|-------|-------|------|-------|
| .869 | .761 | .566 | .574 | .153 | -.131 | -.284 | -.14 | -.167 |
|------|------|------|------|------|-------|-------|------|-------|

CP 321-329

| Year | 1967 | 1968 | 1969 | 1970 | 1971 |
|------|------|------|------|------|------|
| 1967 | 296 | 311 | 387 | 401 | 413 |
| 1968 | 296 | 311 | 387 | 401 | 413 |
| 1969 | 296 | 311 | 387 | 401 | 413 |
| 1970 | 296 | 311 | 387 | 401 | 413 |
| 1971 | 296 | 311 | 387 | 401 | 413 |

| | | | | | | | | | | |
|----|---------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|
| Es | 301-309 | 12.940 | 12.339 | 12.662 | 12.755 | 13.071 | 13.279 | 13.302 | 13.289 | 13.242 |
|----|---------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|

| | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|
| 2s | 201-205 | 13.302 | 13.295 | 13.183 | 13.220 | 13.082 | 13.062 |
|----|---------|--------|--------|--------|--------|--------|--------|

| | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|
| is 07-212 | 10.7-5 | 12.7-7 | 14.7-5 | 12.7-7 | 12.7-5 | 12.6-7 |
|-----------|--------|--------|--------|--------|--------|--------|

| Rs | 23-24 | 12.71 | 11.801 | 11.607 | 11.55 | 12.702 | 12.681 | 12.963 | 12.762 | 12.752 | 13.223 | 13.495 | 13.579 |
|----|-------|-------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Rs | 23-24 | 12.71 | 11.801 | 11.607 | 11.55 | 12.702 | 12.681 | 12.963 | 12.762 | 12.752 | 13.223 | 13.495 | 13.579 |

| | | | | | | | | | | | |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ps 2:5-2:56 | 14.162 | 12.849 | 11.771 | 12.286 | 12.881 | 12.980 | 13.011 | 13.020 | 13.109 | 13.361 | 13.479 |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Ps 237-245 14.650 13.853 13.130 ~~12.814~~ 12.555 12.384 13.367 13.390 13.541

$P_{EW} = 13.198$ $L = .0148$ $P_{C0} = 12.737$ $P_{TC}/P_{CV} = 1.123$ $W_C = 1.62$ $T = 93.$ $B = 29.85$

Run 3-11 C1 I2 S2 31 Eng 2 0.0' 8=10' m/m'=.636 0.662

Pt/Pto 131-144

~~.999~~ .999 1.000 ~~.999~~ .999 .998 .999 1.000 .999 .997 .993 .983

Cp 330-344

~~.999~~ -.519 -.748 -.005 -.428 .392 -.205 -.565 -.739 -.571 -.577 -1.142 -.464 -.860

Pt/Pto 101-130

.985 .993 .992 .967 .987 .989 1.000 1.000 1.000 .970
1.000 1.000 1.000 1.000 1.000 .985 1.000 1.000 1.000 1.000
1.000 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.821 Ptc/Pto = .995 K = .0332

Cp 310-320

.713 .897 .739 .453 .313 .082 -.007 -.242 -.404 -.419 -.185

Cp 321-329

.743 .189 -.000 -.001 -.139 -.190 ~~-.000~~ -.458 -.059

Ps 301-309 13.155 12.303 ~~13.67~~ 12.875 13.152 13.281 13.314 13.292 13.246

Ps 201-206 13.302 13.296 13.189 13.251 13.094 13.092

Ps 207-212 12.725 12.720 12.756 12.769 12.752 12.659

Ps 213-224 12.592 11.677 11.522 11.887 12.687 12.656 12.699 12.955 12.947 13.224 13.486 13.577

Ps 225-236 14.541 13.412 12.474 12.360 12.630 13.041 13.091 13.099 13.084 13.120 13.365 13.463

Ps 237-245 14.638 13.288 12.491 ~~12.451~~ 12.184 12.240 13.236 13.357 13.523

Pcv = 13.199 L = .014 Pcb = 12.738 Ptc/Pcv = 1.124 Wc = 1.62 T = 94. B = 29.85

Run 3-12 C1 I2 S2 B1 Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ m/m = .520 0.661

Pt/Pto 131-144
~~.999~~ 1.000 1.000 ~~.999~~ .999 .997 .999 1.000 .999 .999 .996 .992 ~~.984~~ .983
 Cp 330-344
 -.072 -.587 -.756 -.573 -.383 .54 -.284 -.044 -.737 -.708 -.596 -.575 -1.130 -.452 -.823

Pt/Pto 101-130
 .967 .992 .990 .955 .988 .985 1.000 1.000 1.000 .965
 1.000 1.000 1.000 1.000 1.000 .980 1.000 1.000 1.000 1.000
 1.000 .998 1.000 1.000 1.000 1.000 1.000 1.000 1.000 .993

Ptc = 14.826 Ptc/Pto = .995 K = .0349

Cp 310-320
 .822 .883 .699 .405 .277 .051 -.103 -.219 -.270 -.184 -.138

Cp 321-329
 .861 .369 .127 .030 -.028 -.035 ~~.074~~ ~~.075~~

Ps 301-309 13.062 12.419 ~~13.062~~ 12.822 13.114 13.276 13.309 13.292 13.301

Ps 201-206 13.303 13.298 13.191 15.233 13.086 13.096

Ps 207-212 12.729 12.729 12.759 12.770 12.754 12.701

Ps 213-224 12.84 11.870 11.664 12.003 12.734 12.893 12.968 12.967 12.956 13.222 13.486 13.579

Ps 225-236 14.452 13.280 12.361 12.274 12.54 13.009 13.072 13.081 13.071 13.122 13.368 13.487

Ps 237-245 14.657 13.324 12.540 ~~12.540~~ 12.226 12.862 13.250 13.365 13.530

Pev = 13.201 L = .0146 Feb = 12.740 Ptc/Pev = 1.123 Wc = 1.61 T = 94. B = 29.85

Run 3-13 C1 I2 S2 B1 Eng 2 C=4° $\beta=4^\circ$ m/m* = .610 0.661

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ 1.000 .999 1.000 1.000 .999 .995 .991 ~~-.986~~ .984

Cp 330-344

~~-.017~~ -.430 -.559 -.511 -.323 .397 -.263 -.626 -.784 -.691 -.574 -.365 -.877 -.397 -.757

Pt/Pto 101-130

.987 .990 .974 .958 .993 .992 1.000 1.000 .997 .966
 .999 1.000 1.000 .999 1.000 .981 1.000 1.000 1.000 1.000
 1.000 .997 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.814 Ptc/Pto = .994 K = .0414

Cp 310-320

.869 .924 .730 .456 .318 .116 -.034 -.144 -.206 -.138 -.084

Cp 321-329

.717 .431 .283 .195 .070 -.022 -.020

Ps 301-309 12.709 12.322 ~~12.877~~ 12.639 12.989 13.24 13.270 13.258 13.263

Ps 201-206 13.270 13.263 13.152 13.190 13.04 13.056

Ps 207-212 12.685 12.685 12.715 12.727 12.711 12.655

Ps 213-224 12.937 11.926 11.676 12.001 12.697 12.866 12.937 12.919 13.187 13.456 13.550

Ps 225-236 14.006 12.646 11.769 11.820 12.178 12.796 12.909 12.943 12.960 13.077 13.336 13.454

Ps 237-245 14.851 13.858 13.133 ~~12.487~~ 12.554 12.961 13.282 13.362 13.517

Pcw = 13.163 L = .0151 Pcb = 12.696 Ptc/Pcw = 1.125 Wc = 1.62 T = 94. B = 29.85

| | |
|--------|--|
| Pt/Pto | 131-144 |
| -1.000 | 1.000 1.000 1.000 .998 .999 1.000 1.000 1.000 .998 .994 -.986 .984 |
| Cp | 330-344 |
| -.019 | -.293 -.585 -.493 -.319 .388 -.273 -.632 -.785 -.690 -.572 -.405 -.986 -.369 -.705 |
| Pt/Pto | 101-130 |
| .986 | .962 .972 .960 .999 .996 1.000 .985 .981 .972 |
| 1.000 | 1.000 1.000 .997 .989 .985 1.000 1.000 1.000 |
| .998 | .997 1.000 1.000 1.000 1.000 1.000 1.000 1.000 |
| Ptc = | 14.785 Pte/Pto = .993 K = .0440 |
| Cp | 310-320 |
| .865 | .900 .720 .416 .296 .097 -.034 -.141 -.203 -.157 -.110 |
| Cp | 321-329 |
| .790 | .953 .773 .557 .450 .266 -.032 -.032 |
| Ps | 301-309 |
| | 12.289 12.136 13.874 12.268 12 720 13.169 13.220 13.214 13.225 |
| Ps | 201-206 |
| | 13.233 13.219 13.120 13.153 13.005 13.012 |
| Ps | 207-212 |
| | 12.635 12.635 12.668 12.679 12.663 12.608 |
| Ps | 213-224 |
| | 13.017 11.991 1.702 11.999 12.661 12.818 12.881 12.867 12.84 13.125 13.400 13.502 |
| Ps | 225-236 |
| | 13.254 11.959 11.672 11.796 11.979 12.188 12.34 12.505 12.635 13.04 13.272 13.392 |
| Ps | 237-245 |
| | 14.884 14.415 13.810 12.940 13.137 13.308 13.340 13.491 |
| Pcw = | 13.124 L = .0154 Pcb = 12.648 Pte/Pcv = 1.127 Wc = 1.62 T = 95. B = 29.84 |

[illegible]

Run 3-16 C1 I2 S2 B1 Eng 2 $\alpha = -4^\circ$ $\beta = -10^\circ$ $m/m^* = .610$ 0.661

| | | | | | | | | | | |
|----------------|----------------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|
| Pt/Ptc 131-144 | .999 | .999 | .998 | 1.000 | 1.000 | 1.000 | .999 | .996 | -.984 | .983 |
| 999 | | | | | | | | | | |
| Cp 330-344 | | | | | | | | | | |
| 065 | -.063 | -.398 | -.398 | -.291 | .419 | -.140 | -.476 | -.652 | -.610 | -.527 |
| | | | | | | | | | | -.628 |
| | | | | | | | | | | -1.411 |
| | | | | | | | | | | -.344 |
| | | | | | | | | | | -.708 |
| Pt/Pto 101-130 | | | | | | | | | | |
| .984 | .947 | .973 | .962 | 1.000 | .998 | 1.001 | .965 | .981 | .977 | |
| 1.001 | 1.001 | 1.001 | .980 | .985 | .990 | 1.000 | 1.001 | 1.001 | .992 | |
| .994 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | |
| Ptc = 14.761 | Ptc/Pto = .991 | K = .0539 | | | | | | | | |
| Cp 310-320 | | | | | | | | | | |
| .656 | .916 | .753 | .487 | .365 | .164 | .020 | -.086 | -.175 | -.178 | -.150 |
| Cp 321-329 | | | | | | | | | | |
| .612 | 1.039 | .872 | .667 | .559 | .370 | -.091 | -.091 | -.090 | | |
| Ps 301-309 | 12.114 | 11.943 | 13.076 | 12.166 | 12.737 | 13.130 | 13.164 | 13.148 | 13.174 | |
| Ps 201-206 | 13.182 | 13.159 | 13.076 | 13.106 | 12.947 | 12.952 | | | | |
| Ps 207-212 | 12.568 | 12.571 | 12.603 | 12.617 | 12.599 | 12.542 | | | | |
| Ps 213-224 | 12.452 | 11.627 | 11.420 | 11.778 | 12.556 | 12.722 | 12.795 | 12.783 | 12.764 | 13.04 |
| Ps 225-236 | 12.886 | 11.732 | 11.821 | 11.796 | 12.04 | 12.098 | 12.14 | 12.242 | 12.353 | 12.931 |
| Ps 237-245 | 14.740 | 14.674 | 14.165 | 12.854 | 13.144 | 13.223 | 13.297 | 13.307 | 13.444 | 13.196 |
| Pew = 13.070 | L = .0159 | PeB = 12.583 | Ptc/Pew = 1.129 | Wc = 1.63 | T = 97. | B = 29.84 | | | | |

[illegible]

| | | | | | | | | | | | | | | |
|------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -0.16 | -.151 | -.447 | -.402 | -.261 | .480 | -.098 | -.450 | -.636 | -.592 | -.503 | -.378 | -.977 | -.333 | -.698 |
|------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

| Variable | Mean | SD | Alpha | Reliability | Construct | Method |
|------------------------------|------|------|-------|-------------|-----------|--------|
| 1. Self-esteem | 3.25 | 0.45 | 0.92 | 0.95 | 0.98 | 0.99 |
| 2. Social support | 3.10 | 0.40 | 0.88 | 0.90 | 0.95 | 0.97 |
| 3. Coping strategies | 3.00 | 0.35 | 0.85 | 0.88 | 0.92 | 0.94 |
| 4. Life satisfaction | 3.15 | 0.42 | 0.90 | 0.92 | 0.96 | 0.98 |
| 5. Psychological well-being | 3.20 | 0.43 | 0.91 | 0.93 | 0.97 | 0.99 |
| 6. Resilience | 3.18 | 0.41 | 0.89 | 0.91 | 0.94 | 0.96 |
| 7. Stress management | 3.12 | 0.38 | 0.87 | 0.89 | 0.93 | 0.95 |
| 8. Emotional stability | 3.22 | 0.44 | 0.93 | 0.95 | 0.98 | 1.00 |
| 9. Life satisfaction | 3.15 | 0.42 | 0.90 | 0.92 | 0.96 | 0.98 |
| 10. Psychological well-being | 3.20 | 0.43 | 0.91 | 0.93 | 0.97 | 0.99 |
| 11. Resilience | 3.18 | 0.41 | 0.89 | 0.91 | 0.94 | 0.96 |
| 12. Stress management | 3.12 | 0.38 | 0.87 | 0.89 | 0.93 | 0.95 |
| 13. Emotional stability | 3.22 | 0.44 | 0.93 | 0.95 | 0.98 | 1.00 |
| 14. Life satisfaction | 3.15 | 0.42 | 0.90 | 0.92 | 0.96 | 0.98 |
| 15. Psychological well-being | 3.20 | 0.43 | 0.91 | 0.93 | 0.97 | 0.99 |
| 16. Resilience | 3.18 | 0.41 | 0.89 | 0.91 | 0.94 | 0.96 |
| 17. Stress management | 3.12 | 0.38 | 0.87 | 0.89 | 0.93 | 0.95 |
| 18. Emotional stability | 3.22 | 0.44 | 0.93 | 0.95 | 0.98 | 1.00 |
| 19. Life satisfaction | 3.15 | 0.42 | 0.90 | 0.92 | 0.96 | 0.98 |
| 20. Psychological well-being | 3.20 | 0.43 | 0.91 | 0.93 | 0.97 | 0.99 |
| 21. Resilience | 3.18 | 0.41 | 0.89 | 0.91 | 0.94 | 0.96 |
| 22. Stress management | 3.12 | 0.38 | 0.87 | 0.89 | 0.93 | 0.95 |
| 23. Emotional stability | 3.22 | 0.44 | 0.93 | 0.95 | 0.98 | 1.00 |
| 24. Life satisfaction | 3.15 | 0.42 | 0.90 | 0.92 | 0.96 | 0.98 |
| 25. Psychological well-being | 3.20 | 0.43 | 0.91 | 0.93 | 0.97 | 0.99 |
| 26. Resilience | 3.18 | 0.41 | 0.89 | 0.91 | 0.94 | 0.96 |
| 27. Stress management | 3.12 | 0.38 | 0.87 | 0.89 | 0.93 | 0.95 |
| 28. Emotional stability | 3.22 | 0.44 | 0.93 | 0.95 | 0.98 | 1.00 |
| 29. Life satisfaction | 3.15 | 0.42 | 0.90 | 0.92 | 0.96 | 0.98 |
| 30. Psychological well-being | 3.20 | 0.43 | 0.91 | 0.93 | 0.97 | 0.99 |
| 31. Resilience | 3.18 | 0.41 | 0.89 | 0.91 | 0.94 | 0.96 |
| 32. Stress management | 3.12 | 0.38 | 0.87 | 0.89 | 0.93 | 0.95 |
| 33. Emotional stability | 3.22 | 0.44 | 0.93 | 0.95 | 0.98 | 1.00 |
| 34. Life satisfaction | 3.15 | 0.42 | 0.90 | 0.92 | 0.96 | 0.98 |
| 35. Psychological well-being | 3.20 | 0.43 | 0.91 | 0.93 | 0.97 | 0.99 |
| 36. Resilience | 3.18 | 0.41 | 0.89 | 0.91 | 0.94 | 0.96 |
| 37. Stress management | 3.12 | 0.38 | 0.87 | 0.89 | 0.93 | 0.95 |
| 38. Emotional stability | 3.22 | 0.44 | 0.93 | 0.95 | 0.98 | 1.00 |
| 39. Life satisfaction | 3.15 | 0.42 | 0.90 | 0.92 | 0.96 | 0.98 |
| 40. Psychological well-being | 3.20 | 0.43 | 0.91 | 0.93 | 0.97 | 0.99 |
| 41. Resilience | 3.18 | 0.41 | 0.89 | 0.91 | 0.94 | 0.96 |
| 42. Stress management | 3.12 | 0.38 | 0.87 | 0.89 | 0.93 | 0.95 |
| 43. Emotional stability | 3.22 | 0.44 | 0.93 | 0.95 | 0.98 | 1.00 |
| 44. Life satisfaction | 3.15 | 0.42 | 0.90 | 0.92 | 0.96 | 0.98 |
| 45. Psychological well-being | 3.20 | 0.43 | 0.91 | 0.93 | 0.97 | 0.99 |
| 46. Resilience | 3.18 | 0.41 | 0.89 | 0.91 | 0.94 | 0.96 |
| 47. Stress management | 3.12 | 0.38 | 0.87 | 0.89 | 0.93 | 0.95 |
| 48. Emotional stability | 3.22 | 0.44 | 0.93 | 0.95 | 0.98 | 1.00 |
| 49. Life satisfaction | 3.15 | 0.42 | 0.90 | 0.92 | 0.96 | 0.98 |
| 50. Psychological well-being | 3.20 | 0.43 | 0.91 | 0.93 | 0.97 | 0.99 |
| 51. Resilience | 3.18 | 0.41 | 0.89 | 0.91 | 0.94 | 0.96 |
| 52. Stress management | 3.12 | 0.38 | | | | |

| | | | | | | | | | | |
|------|------|------|------|------|------|------|-------|-------|-------|-------|
| .735 | .968 | .827 | .565 | .430 | .223 | .062 | -.056 | -.14h | -.126 | -.090 |
|------|------|------|------|------|------|------|-------|-------|-------|-------|

| | | | | | | | | |
|------|------|------|------|------|------|------------------|-------|-------|
| .919 | .893 | .638 | .455 | .349 | .188 | -.032 | -.032 | -.031 |
|------|------|------|------|------|------|------------------|-------|-------|

$P_{EV} = 13.14$ $L = .0151$ $P_{CB} = 12.682$ $P_{TC}/P_{EV} = 1.126$ $W_C = 1.62$ $T = 97.$ $B = 29.84$

Run 3-18 C1 I2 S2 B1 Eng 2 $\alpha = -4^\circ$ $\beta = 4^\circ$ $m/m^* = .610$ 0.662

Pt/Pto 131-144

[illegible]

CP 330-344

| | | | | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | -.019 | -.355 | -.589 | -.492 | -.343 | .486 | -.090 | -.450 | -.637 | -.592 | -.508 | -.338 | -.859 | -.385 | -.783 |
|---|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

Pt/Pto 101-130

| | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| .985 | .990 | .979 | .961 | .992 | .991 | 1.000 | 1.000 | .971 |
| 1.000 | 1.000 | 1.000 | 1.000 | .999 | .989 | 1.000 | 1.000 | .999 |
| 1.000 | .999 | 1.000 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 |

$P_{TC} = 14.817$ $P_{TC}/P_{TO} = .995$ $K = .0395$

CP 310-320

| | | | | | | | | | | |
|------|------|------|------|------|------|------|-------|-------|-------|-------|
| .697 | .949 | .790 | .570 | .439 | .208 | .023 | -.108 | -.188 | -.151 | -.121 |
|------|------|------|------|------|------|------|-------|-------|-------|-------|

CP 321-329

| | | | | | | | | |
|------|------|------|------|------|-------|-------|-------|--------|
| .892 | .503 | .203 | .090 | .013 | -.089 | -.021 | -.022 | -.033- |
|------|------|------|------|------|-------|-------|-------|--------|

| | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa | 301-309 | 13.024 | 12.389 | 12.837 | 13.147 | 13.280 | 13.302 | 13.284 | 13.295 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|

Pr 201-206 13.293 13.285 13.179 13.216 13.74 13.082

Ps 207-212 12.718 12.718 12.74 12.762 12.743 12.691

| | | | | | | | | | | | | |
|------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ps 213-224 | 12.394 | 11.598 | 11.456 | 11.84 | 12.653 | 12.851 | 12.938 | 12.945 | 12.938 | 13.214 | 13.477 | 13.568 |
|------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | | |
|----|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa | 225-236 | 14.24 | 12.978 | 12.080 | 12.050 | 12.332 | 12.911 | 13.000 | 13.024 | 13.024 | 13.104 | 13.353 | 13.475 |
|----|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Pa 237-245 14.832 13.836 13.106 ~~12.631~~ 12.536 12.964 13.295 13.381 13.535

$P_{EW} = 13.188$ $L = .0148$ $P:b = 12.730$ $P_{TC}/P_{EV} = 1.124$ $W_C = 1.61$ $T = 98.$ $B = 29.84$

| | |
|--------|---|
| Pt/Pto | 131-144 |
| .999- | .999 .999 .998 1.000 1.000 .999 .998 .994 -.985-. 983 |
| Cp | 330-344 |
| -.976 | -.561 -.734 -.602 -.460 .441 -.113 -.467 -.653 -.539 -.557 -1.132 -.462 -.878 |
| Pt/Pto | 101-130 |
| .985 | .993 .994 .967 .987 .989 1.000 1.000 .974 |
| 1.000 | 1.000 1.000 1.000 .991 1.000 1.000 1.000 |
| 1.000 | .999 1.000 1.000 1.000 .999 1.000 1.000 |
| Ptc = | 14.826 Ptc/Pto = .996 K = .0329 |
| Cp | 310-320 |
| .593 | .905 .778 .495 .364 .124 -.073 -.209 -.282 -.238 -.215 |
| Cp | 321-329 |
| .633 | .048 -.136 -.210 -.263 -.296 -.669 -.070 -.668 |
| Ps | 301-309 |
| | 13.264 12.315 13.075 12.931 13.208 13.279 13.309 13.279 13.287 |
| Ps | 201-206 |
| | 13.289 13.280 13.171 13.214 13.069 13.077 |
| Ps | 207-212 |
| | 12.713 12.712 12.742 12.755 12.738 12.686 |
| Ps | 213-224 |
| | 12.203 11.457 11.362 11.754 12.627 12.827 12.922 12.929 12.926 13.209 13.473 13.563 |
| Ps | 225-236 |
| | 14.588 13.518 12.566 12.426 12.695 13.061 13.107 13.103 13.084 13.108 13.354 13.471 |
| Ps | 237-245 |
| | 14.618 13.249 12.442 12.140 12.811 13.220 13.34 13.509 |
| Pew = | 13.183 L = .0148 Peb = 12.724 Ptc/Pcw = 1.125 Wc = 1.61 T = 99. B = 29.83 |

Run 4-2 C1 I2 S2 B Eng 2 $\alpha = -4^\circ$ $\beta = 0^\circ$ $m/m^* = .677$ 0.736, 0.726

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ 1.000 1.000 1.000 1.000 1.000 1.000 .999 .995 .987 .984

Cp 330-344

~~-.014~~ -.250 -.515 -.455 -.328 .489 -.095 -.457 -.652 -.610 -.534 -.386 -1.080 -.428 -.948

Pt/Pto 101-130

.982 .985 .953 .94 .997 .993 1.000 1.000 .973 .958
1.000 1.000 1.000 1.000 .995 .976 1.000 1.000 1.000 1.000
.999 .996 .999 .999 1.000 1.000 1.000 .999 .995

Ptc = 14.826 Ptc/Pto = .991 K = .0574

Cp 310-320

.367 1.001 .896 .674 .535 .287 .090 -.047 -.138 -.124 -.087

Cp 321-329

.892 .861 .541 .373 .266 .105 ~~-.025~~ ~~-.026~~ ~~-.025~~

Ps 301-309 12.303 11.722 ~~13.764~~ 11.974 12.378 12.769 12.800 12.774 12.796

Ps 201-206 12.735 12.783 12.630 12.565 12.463 12.490

Ps 207-212 11.385 11.388 12.027 12.035 12.007 11.940

Ps 213-224 11.291 10.457 10.254 10.796 11.905 12.177 12.296 12.298 12.286 12.676 13.037 13.166

Ps 225-236 13.376 11.542 10.520 10.628 11.296 11.996 12.188 12.285 12.333 12.546 12.881 13.047

Ps 237-245 14.929 13.924 13.018 ~~12.557~~ 12.040 12.469 12.824 12.912 13.125

Pev = 12.637 L = .0223 Peb = 11.977 Ptc/Pev = 1.173 We = 1.86 T = 74. B = 29.96

Run 4-3 C1 I2 S2 B1 Eng 2 $\alpha = -10^\circ$ $\beta = 0^\circ$ $m/m^* = .6977$ 0.730

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ 1.000 1.000 1.000 1.000 1.000 1.000 1.000 .999 .997 .987 .984

Cp 330-344

~~1.000~~ .981 .986 .962 .948 .997 .993 1.000 1.000 .996 .965
1.000 1.000 1.000 1.000 .999 .985 1.000 1.000 1.000 1.000 1.000
1.000 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000 .999

Pt/Pto 101-130

.981 .986 .962 .948 .997 .993 1.000 1.000 .996 .965
1.000 1.000 1.000 1.000 .999 .985 1.000 1.000 1.000 1.000 1.000
1.000 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000 .999

Ptc = 14.854 Ptc/Pto = .993 K = .0521

Cp 310-320

.123 .985 .941 .749 .619 .370 .161 .011 -.090 -.098 -.083

Cp 321-329

.885 .718 .385 .225 .119 -.025 -.658 -.057 -.056

Ps 301-309 12.438 11.805 11.852 12.136 12.606 12.902 12.916 12.890 12.908

Ps 201-206 12.912 12.902 12.750 12.790 12.598 12.621

Ps 207-212 12.14 12.149 12.187 12.196 12.171 12.106

Ps 213-224 10.883 10.326 10.253 10.936 12.005 12.290 12.417 12.431 12.425 12.801 13.141 13.263

Ps 225-236 13.661 12.012 10.898 10.960 11.612 12.250 12.412 12.480 12.505 12.663 12.988 13.14

Ps 237-245 14.928 14.012 13.144 12.455 12.183 12.596 12.938 13.027 13.225

Pev = 12.762 L = .0211 Pev = 12.160 Ptc/Pev = 1.164 Wc = 1.82 T = 77. B = 29.96

Run 4-5 C1 I2 S2 B1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ $m/m^* = .677$ 0.731

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ 1.000 .999 .999 1.000 .999 .999 .999 .992 .986 .984

Cp 330-344

~~-.618~~ -.357 -.621 -.511 -.350 .390 -.271 -.635 -.798 -.711 -.598 -.413 -1.069 -.443 -.907

Pt/Pto 101-130

.984 .974 .961 .94 .997 .994 1.000 .938 .973 .957
1.000 1.000 1.000 1.000 .990 .971 1.000 1.000 1.000 1.000
.999 .992 1.000 1.000 1.000 1.000 1.000 1.000 1.000 .999

Ptc = 14.820 Pt./Pto = .991 K = .0552

Cp 310-320

.666 .969 .816 .542 .403 .175 .008 -.106 -.180 -.131 -.076

Cp 321-329

.816 .94 .681 .501 .388 .213 ~~-.027~~ -.027 -.029

Ps 301-309 11.971 11.653 ~~13.902~~ 11.776 12.319 12.812 12.866 12.847 12.868

Ps 201-206 12.879 12.658 12.718 12.754 12.558 12.584

Ps 207-212 12.098 12.100 12.138 12.14 12.123 12.059

Ps 213-224 12.14 11.054 10.737 11.171 12.085 12.315 12.410 12.400 12.383 12.747 13.097 13.224

Ps 225-236 13.180 11.533 10.653 10.850 11.326 11.883 12.076 12.215 12.320 12.636 12.937 13.099

Ps 237-245 14.939 14.019 13.167 ~~12.354~~ 12.212 12.592 12.909 12.984 13.187

Pcv = 12.725 L = .0217 Pcb = 12.111 Ptc/Pcv = 1.165 Wc = 1.82 T = 78. B = 29.96

Run 4-6 C1 I2 S2 B1 Eng 2 $\alpha=10^\circ$ $\beta=0^\circ$ m/m' = .677 0.733

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ 1.000 .998 .999 1.000 .999 .997 .993 .990 ~~.986~~ .984

Cp 330-344

~~.052~~ -.430 -.679 -.541 -.362 .335 -.370 -.729 -.866 -.753 -.617 -.413 -1.063 -.442 -.899

Pt/Pto 101-130

.985 .957 .961 .94 .997 .994 1.000 .985 .974 .960
1.000 1.000 1.000 .998 .987 .975 1.000 1.000 1.000 1.000
.998 .994 1.000 1.000 1.000 1.000 1.000 1.000 1.000 .999

Ptc = 14.806 Ptc/Pto = .990 K = .0532

Cp 310-320

.799 .952 .764 .471 .337 .120 -.019 -.122 -.184 -.115 -.062

Cp 321-329

.646 .978 .755 .576 .462 .271 ~~.062~~ ~~-.062~~

Ps 301-309 11.723 11.513 ~~13.307~~ 11.564 12.147 12.746 12.811 12.802 12.826

Ps 201-206 12.838 12.810 12.677 12.713 12.511 12.539

Ps 207-212 12.04 12.04 12.087 12.094 12.071 12.004

Ps 213-224 12.473 11.260 10.866 11.227 12.071 12.290 12.369 12.349 12.323 12.688 13.04 13.180

Ps 225-236 12.884 11.325 10.821 11.002 11.283 11.571 11.758 11.94 12.108 12.594 12.890 13.050

Ps 237-245 14.935 14.001 13.150 ~~12.314~~ 12.188 12.561 12.869 12.937 13.14

Pcv = 12.681 L = .0221 Pcb = 12.058 Ptc/Pcv = 1.168 Wc = 1.83 T = 81. B = 29.95

Run 4-7 C1 I2 S2 B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $m/m'=.677$ 0.732

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ .999 .997 .999 .999 .997 .995 .992 .989 ~~.985~~ .983

Cp 330-344

~~.997~~ -.516 -.729 -.549 -.378 .274 -.476 -.808 -.891 -.726 -.572 -.374 -1.035 -.404 -.894

Pt/Pto 101-130

.985 .930 .955 .967 .998 .995 1.000 .94 .966 .975
1.000 1.000 1.000 .967 .974 .976 1.000 1.000 1.000 .983
.986 .991 1.000 1.000 1.000 .999 1.000 1.000 1.000 1.000

Ptc = 14.747 Ptc/Pto = .987 K = .0715

Cp 310-320

.887 .887 .691 .395 .272 .086 -.022 -.098 -.14 -.063 -.034

Cp 321-329

.127 .887 .795 .638 .520 .304 ~~.107~~ ~~.109~~ -.107

Ps 301-309 11.383 10.887 ~~13.901~~ 11.127 12.085 12.526 12.687 12.660 12.707

Ps 201-206 12.74 12.702 12.609 12.628 12.409 12.435

Ps 207-212 11.921 11.927 11.980 11.981 11.953 11.881

Ps 213-224 12.865 11.520 11.025 11.278 12.023 12.230 12.281 12.189 12.533 12.907 13.057

Ps 225-236 12.330 11.053 11.197 11.137 11.414 11.444 11.469 11.547 11.656 12.359 12.725 12.924

Ps 237-245 14.934 13.791 13.136 ~~12.677~~ 12.141 12.501 12.776 12.824 13.032

Pev = 12.588 L = .0230 Peb = 11.940 Ptc/Pew = 1.171 Wc = 1.83 T = 83. B = 29.95

Run 4-8 C1 I2 S2 B1 Eng 2 $\alpha=0^\circ$ $\beta=-4^\circ$ $m/m^* = .677$ 0.732

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ 1.000 .999 .999 1.000 1.000 .999 .995 ~~.986~~ .984

Cp 330-344

~~.915~~ -.231 -.528 -.471 -.338 .421 -.198 -.561 -.736 -.673 -.577 -.468 -1.189 -.429 -.896

Pt/Pto 101-130

.982 .955 .965 .953 .998 .995 1.000 .985 .977 .966
1.000 1.000 1.000 .998 .988 .980 1.000 1.000 1.000 1.000
.998 .996 1.000 1.000 1.000 1.000 1.000 1.000 .999

Ptc = 14.618 Ptc/Pto = .991 K = .046

Cp 310-320

.572 .930 .612 .568 .432 .203 .034 -.084 -.167 -.14 -.103

Cp 321-329

.677 .960 .725 .572 .459 .271 ~~.031~~ -.031 ~~.033~~

Ps 301-309 11.901 11.610 ~~13.955~~ 11.675 12.213 12.785 12.940 12.829 12.850

Ps 201-206 12.858 12.831 12.701 12.739 12.537 12.563

4

Ps 207-212 12.076 12.077 12.118 12.125 12.102 12.037

Ps 213-224 11.877 10.896 10.625 11.078 12.041 12.275 12.372 12.364 12.34 12.717 13.068 13.198

Ps 225-236 12.899 11.315 10.762 10.964 11.310 11.631 11.822 12.008 12.155 12.616 12.911 13.070

Ps 237-245 14.929 14.284 13.500 ~~12.325~~ 12.405 12.685 12.926 12.977 13.174

Pcv = 12.705 L = .0215 Pcb = 12.089 Ptc/Pcw = 1.166 \bullet Wc = 1.82 T = 84. B = 29.95

| | |
|--------|--|
| Pt/Pto | 131-144 |
| .999 | - .999 |
| Cp | 330-344 |
| .657 | - .166 - .502 - .495 - .360 - .366 - .238 - .586 - .761 - .694 - .601 - .713 - 1.510 - .449 - .926 |
| Pt/Pto | 101-130 |
| .980 | .922 .960 .958 1.000 .998 1.000 .940 .953 .968 |
| 1.000 | 1.000 1.000 .972 .979 1.000 1.000 1.000 .975 |
| .985 | .997 1.000 1.000 1.000 .996 .998 1.000 1.000 .999 |
| Ptc = | 14.726 Pte/Pto = .985 K = .0797 |
| Cp | 310-320 |
| .411 | .858 .713 .481 .345 .129 -.020 -.130 -.215 -.217 -.182 |
| Cp | 321-329 |
| .140 | .976 .906 .745 .634 .422 -.661 -.635 -.682 |
| Ps | 301-309 |
| | 11.256 11.008 13.947 11.130 12.061 12.621 12.641 12.616 12.665 |
| Ps | 201-206 |
| | 12.714 12.670 12.580 12.597 12.373 12.398 |
| Ps | 207-212 |
| | 11.877 11.884 11.942 11.936 11.912 11.835 |
| Ps | 213-224 |
| | 11.795 10.802 10.495 10.921 11.905 12.118 12.197 12.165 12.129 12.486 12.862 13.013 |
| Ps | 225-236 |
| | 12.139 10.840 11.024 11.068 11.356 11.381 11.396 11.454 11.545 12.268 12.671 12.884 |
| Ps | 237-245 |
| | 14.84 14.572 13.877 12.471 12.575 12.710 12.816 12.827 13.020 |
| Pew = | 12.555 L = .0232 Feb = 11.898 Fec/Fev = 1.173 We = 1.83 T = 84. 3 = 29.95 |

Run 4-10 C1 I2 S2 B1 Eng 2 4=C° $\beta=4^\circ$ $m/m^* = .677$ 0.725

Pt/rto 131-144

~~1.000~~ .999 1.000 ~~1.000~~ 1.000 1.000 1.000 1.000 1.000 .999 .997 .993 .985- .984

Cp 330-344

~~1.000~~ .997 1.000 1.000 1.000 1.000 1.000 1.000 1.000 .999 .981 -.582 -.432 -1.085 -.466 -.963

Pt/Pto 101-130

.983 .987 .965 .94 .92 .992 1.000 1.000 .993 .957
1.000 1.000 1.000 1.000 .999 .977 1.000 1.000 1.000 1.000
1.000 .997 1.000 1.000 1.000 1.000 1.000 1.000 1.000 .999

Ptc = 14.533 Ptc/Pto = .993 K = .0529

Cp 310-320

.548 .950 .831 .601 .458 .212 .013 -.112 -.197 -.14 -.105

Cp 321-329

.923 .725 .446 .275 .177 .039 -.028- -.027

Ps 301-309 12.321 11.735 13.905 12.081 12.528 12.868 12.898 12.880 12.894

Ps 201-206 12.908 12.898 12.74 12.787 12.594 12.620

Ps 207-212 12.138 12.14 12.179 12.185 12.167 12.102

Ps 213-224 11.769 10.835 10.611 11.100 12.094 12.341 12.446 12.448 12.435 12.793 13.133 13.255

Ps 225-236 13.745 12.117 11.008 11.038 11.570 12.286 12.434 12.491 12.504 12.658 12.983 13.144

Ps 237-245 14.881 13.670 12.753 12.288 11.981 12.506 12.899 13.004 13.209

Ptv = 12.759 L = .0212 Fcb = 12.152 Ptc/Pcv = 1.163 Wc = 1.80 T = 86. B = 29.94

Run 4-11 C1 I2S2 B1 Eng 2 $\alpha=0^\circ$ $\beta=10^\circ$ $m/m^* = \frac{1.447}{1.447}$ 0.731

| | | | | | | | | | | | | | | |
|----------------|-----------------|-----------------|-------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| Pt/Pto 131-144 | .999 | .999 | .999 | .998 | .999 | 1.000 | .999 | .999 | .996 | .993 | .963 | .983 | | |
| Cp 330-344 | .979 | .584 | .757 | .610 | .451 | .387 | .212 | .574 | .752 | .690 | .596 | .637 | .522 | -1.012 |
| Pt/Pto 101-130 | .983 | .990 | .984 | .960 | .983 | .983 | 1.000 | .999 | .999 | .957 | | | | |
| | .999 | 1.000 | .999 | .999 | .999 | .971 | .999 | .999 | .999 | .999 | | | | |
| | .999 | .997 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | | | | |
| Ptc = 14.840 | Ptc/Pto = .993 | K = .0429 | | | | | | | | | | | | |
| Cp 310-320 | .420 | .909 | .795 | .540 | .392 | .138 | .064 | .200 | .271 | .213 | .179 | | | |
| Cp 321-329 | .870 | .433 | .135 | .007 | .063 | .148 | .075 | .673 | .073 | | | | | |
| Ps 301-309 | 12.618 | 11.753 | 13.901 | 12.177 | 12.574 | 12.862 | 12.903 | 12.881 | 12.890 | | | | | |
| Ps 201-206 | 12.905 | 12.896 | 12.750 | 12.788 | 12.594 | 12.618 | | | | | | | | |
| Ps 207-212 | 12.138 | 12.139 | 12.175 | 12.185 | 12.163 | 12.100 | | | | | | | | |
| Ps 213-224 | 11.631 | 10.727 | 10.546 | 11.038 | 12.085 | 12.330 | 12.439 | 12.443 | 12.429 | 12.791 | 13.133 | 13.254 | | |
| Ps 225-236 | 14.258 | 12.730 | 11.613 | 11.507 | 11.850 | 12.486 | 12.578 | 12.595 | 12.583 | 12.659 | 12.982 | 13.144 | | |
| Ps 237-245 | 14.673 | 13.04 | 12.034 | 12.043 | 11.527 | 12.331 | 12.817 | 12.966 | 13.186 | | | | | |
| Pcv = 12.758 | L = .0210 | Pcb = 12.150 | Ptc/Pcv = 1.163 | Wc = 1.80 | T = 88. | B = 29.93 | | | | | | | | |

Run 4-12 C1 I2 S2 B1 Eng 2 $\alpha=4^\circ$ $\beta=10^\circ$ m/m² = ~~677~~ 0.731

Pt/Pto 131-144

~~.999~~ .999 ~~.999~~ .999 .997 .999 1.000 .999 .999 .995 .992 ~~.983~~ .983

Cp 330-344

~~.687~~ -.593 -.764 -.593 -.414 .34h -.292 -.655 -.817 -.732 -.622 -.64h -1.303 -.510 -.983

Pt/Pto 101-130

.984 .990 .981 .955 .983 .989 1.000 1.000 1.000 .953
1.000 1.000 1.000 1.000 1.000 .965 1.000 1.000 1.000 1.000
1.000 .995 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.837 Ptc/Pto = .993 K = .048

Cp 310-320

.581 .919 .783 .505 .359 .112 -.073 -.198 -.258 -.182 -.135

Cp 321-329

.937 .567 .268 .123 .045 -.050 ~~.880~~ -.079 -.081

Ps 301-309 12.578 11.779 13.905 12.093 12.518 12.852 12.894 12.879 12.889

Ps 201-206 12.904 12.897 12.750 12.784 12.593 12.617

Ps 207-212 12.137 12.137 12.172 12.183 12.161 12.096

Ps 213-224 11.961 10.939 10.697 11.14 12.124 12.351 12.452 12.448 12.433 12.788 13.130 13.253

Ps 225-236 14.14h 12.626 11.465 11.395 11.757 12.440 12.544 12.569 12.564 12.656 12.981 13.142

Ps 237-245 14.692 13.087 12.086 ~~11.911~~ 11.568 12.350 12.824 12.969 13.186

Pcw = 12.757 L = .0210 Pcb = 12.148 Ptc/Pcw = 1.163 Wc = 1.80 T = 88. B = 29.94

Run 4-15 C1 I2 S2 B1 Eng 2 $\alpha=4^\circ$ $\beta=-10^\circ$ $m/m'=.647$ 0.732

Pt/Pto 131-144

| | | | | | | | | | |
|-----------------|------|-------|------------------|------|------|-------|------|-----------------|------|
| .775 | .999 | 1.000 | 1.000 | .999 | .998 | 1.000 | .995 | .984 | .983 |
|-----------------|------|-------|------------------|------|------|-------|------|-----------------|------|

CP 330-344

| | | | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| -0.972 | -0.261 | -0.592 | -0.562 | -0.441 | .328 | -0.318 | -0.667 | -0.817 | -0.737 | -0.628 | -0.709 | -1.601 | -0.475 | -0.962 |
|-------------------|--------|--------|--------|--------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Et/Pto 101-130

| | | | | | | | | | |
|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| .379 | .915 | .956 | .961 | .799 | .997 | .939 | .932 | .964 | .972 |
| 1.000 | 1.000 | 1.000 | .74 | .956 | .975 | 1.000 | 1.000 | 1.000 | .967 |
| .978 | .995 | 1.000 | 1.000 | 1.000 | .993 | .996 | 1.000 | 1.000 | 1.000 |

$$F_{TC} = 14.50 \quad P_{TC}/P_{TC} = .983 \quad K = .0964$$

CP 310-320

| | | | | | | | | | | |
|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| .478 | .799 | .667 | .413 | .278 | .068 | -.072 | -.173 | -.252 | -.231 | -.205 |
|------|------|------|------|------|------|-------|-------|-------|-------|-------|

CP 321-329

| | | | | | | | | |
|-------|------|------|------|-----|------|-------|-------|-------|
| -.088 | .931 | .891 | .756 | .64 | .428 | -.070 | -.070 | -.070 |
|-------|------|------|------|-----|------|-------|-------|-------|

| | | | | | | | | | |
|------------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|
| Ps 301-309 | 11.001 | 10.314 | 13.837 | 10.995 | 12.052 | 12.562 | 12.572 | 12.547 | 12.615 |
|------------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|

Ps 201-206 12.682 12.633 12.553 12.559 12.335 12.359

| | | | | | | | |
|----|---------|--------|-------|--------|--------|--------|--------|
| P3 | 207-212 | 11.829 | 11.64 | 11.902 | 11.891 | 11.867 | 11.788 |
|----|---------|--------|-------|--------|--------|--------|--------|

| | | | | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| P3 | 213-224 | 12.065 | 10.962 | 10.573 | 10.979 | 11.912 | 12.105 | 12.170 | 12.127 | 12.081 | 12.423 | 12.801 | 12.961 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | |
|------------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Pa 225-236 | 11.335 | 10.74 | 10.68 | 11.334 | 11.344 | 11.381 | 11.452 | 12.157 | 12.590 | 12.829 |
|------------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | |
|----|---------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|
| F3 | 237-245 | 14.850 | 14.557 | 13.866 | 14.403 | 12.560 | 12.589 | 12.783 | 12.700 | 12.972 |
|----|---------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|

$P_{cv} = 12.522$ $i = .0236$ $P_{cb} = 11.854$ $P_{tc}/P_{cv} = 1.173$ $W_c = 1.81$ $T = 93.$ $B = 29.94$

Run 4-16 C1 I2 S2 B1 Eng 2 $\alpha = -4^\circ$ $\beta = -10^\circ$ $m/m^2 = \frac{4.77}{1.00}$ 0.733

Pt/Pto 131-144

~~.999~~ .999 ~~1.000~~ .999 .998 1.000 1.000 .999 1.000 .999 .996 ~~.984~~ .983

Cp 330-344

~~-.072~~ -.073 -.406 -.422 -.324 .415 -.150 -.487 -.672 -.636 -.558 -.701 -1.624 -.416 -.903

Pt/Pto 101-130

.979 .928 .963 .954 1.000 .997 1.000 .94 .972 .968
1.000 1.000 1.000 .968 .978 .982 1.000 1.000 1.000 .984
.990 .998 1.000 1.000 1.000 .999 1.000 1.000 1.000 1.000

Ptc = 14.747 Ptc/Pto = .987 K = .0732

Cp 310-320

.285 .863 .734 .557 .424 .200 .04 -.072 -.164 -.180 -.150

Cp 321-329

.259 .996 .882 .720 .609 .404 ~~-.103~~ ~~-.105~~ ~~-.104~~

Ps 301-309 11.430 11.136 ~~13.903~~ 11.292 12.133 12.658 12.688 12.565 12.711

Ps 201-206 12.751 12.706 12.606 12.635 12.414 12.439

Ps 207-212 11.922 11.930 11.980 11.981 11.955 11.885

Ps 213-224 11.458 10.614 10.379 10.850 11.899 12.132 12.224 12.205 12.177 12.548 12.916 13.062

Ps 225-236 12.305 10.944 11.065 11.037 11.365 11.416 11.456 11.544 11.657 12.372 12.744 12.930

Ps 237-245 14.828 14.591 13.907 ~~12.355~~ 12.604 12.737 12.854 12.872 13.062

Rev = 12.592 L = .0229 Peb = 11.941 Ptc/Pev = 1.171 Wc = 1.81 T = 93. B = 29.94

Run 4-19 C1 I2 S2 B1 Eng 2 $\alpha = -4^\circ$ $\beta = 10^\circ$ $m/m^* = .677$ 0.731

Pt/Pto 131-144

~~.997~~ .999 ~~.999~~ .999 .998 .999 1.000 .999 .998 .994 ~~.984~~ .983

Gp 330-344

~~.994~~ -.574 -.742 -.627 -.493 .429 -.128 -.486 -.639 -.564 -.632 -1.345 -.532 -1.067

Pt/Pto 101-130

.982 .990 .988 .957 .984 .988 1.000 1.000 1.000 .960
1.000 1.000 1.000 1.000 1.000 .978 1.000 1.000 1.000 1.000
1.000 .999 1.000 1.000 1.000 1.000 .999 1.000 1.000 1.000

Ptc = 14.848 Ptc/Pto = .994 K = .048

Gp 310-320

.251 .933 .84 .587 .442 .177 -.045 -.188 -.273 -.235 -.215

Gp 321-329

.818 .295 .013 -.107 -.175 -.252 -.086 -.087 -.085

Ps 301-309 12.733 11.775 ~~13.900~~ 12.316 12.689 12.880 12.910 12.888 12.898

Ps 201-206 12.908 12.895 12.751 12.792 12.594 12.620

Ps 207-212 12.140 12.141 12.177 12.189 12.165 12.101

Ps 213-224 11.192 10.463 10.354 10.905 12.032 12.302 12.422 12.433 12.425 12.793 13.135 13.255

Ps 225-236 14.325 12.899 11.713 11.582 11.912 12.520 12.601 12.612 12.598 12.660 12.984 13.143

Ps 237-245 14.663 13.039 12.022 ~~12.096~~ 11.518 12.332 12.820 12.968 13.185

Pcv = 12.760 L = .0212 Pcb = 12.152 Ptc/Pcv = 1.164 Wc = 1.79 T = 94. B = 29.93

Run 4-20 C1 I2 S2 B0 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ m/m² = .677 0.732

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ 1.000 .999 .999 1.000 1.000 .999 .997 .993 ~~.991~~ .991

Cp 330-344

~~.983~~ -.306 -.571 -.483 -.332 .440 -.189 -.554 -.733 -.666 -.568 -.388 -1.014 -.425 -.871

Pt/Pto 101-130

.983 .983 .956 .939 .997 .993 1.000 1.000 .972 .94
1.000 1.000 1.000 .994 .994 .955 1.000 1.000 1.000 1.000
1.000 .984 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.789 Ptc/Pto = .990 K = .0622

Cp 310-320

.584 1.001 .84 .596 .456 .222 .040 -.084 -.165 -.129 -.085

Cp 321-329

.900 .915 .628 .433 .324 .159 ~~.011~~ ~~-.087~~ ~~-.611~~

Ps 301-309 12.157 11.605 ~~13.694~~ 11.773 12.273 12.811 12.955 12.941 12.861

Ps 201-206 12.868 12.856 12.705 12.74 12.548 12.575

Ps 207-212 12.008 12.090 12.127 12.136 12.111 12.04

Ps 213-224 11.861 10.879 10.615 11.083 12.04 12.289 12.391 12.386 12.371 12.739 13.038 13.216

Ps 225-236 13.335 11.666 10.645 10.756 11.284 12.042 12.230 12.329 12.376 12.625 12.934 13.095

Ps 237-245 14.930 13.995 13.127 ~~12.093~~ 12.138 12.538 12.878 12.972 13.177

Pcw = 12.716 L = .0217 Fcb = 12.100 Ptc/Pcw = 1.163 Wc = 1.79 T = 94. B = 29.93

Run 4-21 C1 I2 S2 B1 Eng 2 $\alpha=C^\circ$ $\beta=0^\circ$ $m/m^*=$ ~~677~~ 0.731

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ 1.000 1.000 .999 1.000 1.000 1.000 .998 .994 ~~.987~~ .984

Cp 330-344

~~.999~~ -.309 -.573 -.409 -.341 .431 -.199 -.555 -.735 -.673 -.577 -.402 -1.074 -.442 -.925

Pt/Pto 101-130

.982 .981 .959 .94 .997 .993 1.000 1.000 .972 .959
1.000 1.000 1.000 1.000 .992 .975 1.000 1.000 1.000 1.000
1.000 .995 1.000 1.000 1.000 1.000 1.000 1.000 .999 1.000

Ptc = 14.812 Ptc/Pto = .992 K = .0549

Cp 310-320

.562 .989 .866 .600 .463 .226 .04 -.081 -.166 -.131 -.085

Cp 321-329

.866 .905 .615 .438 .327 .152 ~~.611~~ ~~.610~~

Ps 301-309 12.071 11.536 ~~13.890~~ 11.870 12.388 12.820 12.860 12.84 12.865

Ps 201-206 12.873 12.858 12.711 12.756 12.557 12.583

Ps 207-212 12.095 12.098 12.135 12.144 12.120 12.056

Ps 213-224 11.814 10.851 10.598 11.073 12.053 12.296 12.399 12.397 12.381 12.74 13.094 13.220

Ps 225-236 13.319 11.664 10.676 10.807 11.303 12.023 12.209 12.317 12.376 12.636 12.938 13.093

Ps 237-245 14.926 14.004 13.157 ~~12.120~~ 12.192 12.575 12.904 12.982 13.180

Pcw = 12.723 L = .0213 Pcb = 12.108 Ptc/Pcw = 1.164 Wc = 1.79 T = 94. B = 29.93

Run 4-23 C1 I2 S2 B1 Eng 2 $\alpha = -10^\circ$ $\beta = 0^\circ$ $m/m^* = 0.732$

Pt/Pto 131-144

[illegible]

CP 330-344

| | | | | | | | | | | | | | | | |
|--|--------|--------|--------|--------|--------|------|-----|-------|-------|-------|-------|-------|--------|-------|-------|
| | -0.034 | -0.168 | -0.426 | -0.401 | -0.307 | .558 | .04 | -.303 | -.510 | -.505 | -.454 | -.339 | -1.035 | -.385 | -.917 |
|--|--------|--------|--------|--------|--------|------|-----|-------|-------|-------|-------|-------|--------|-------|-------|

Pt/Pto 101-130

| | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| .981 | .984 | .952 | .948 | .997 | .993 | 1.000 | 1.000 | .990 |
| 1.000 | 1.000 | 1.000 | 1.000 | .999 | .985 | 1.000 | 1.000 | 1.000 |
| 1.000 | .999 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

$P_{TC} = 14.834$ $P_{TC}/P_{TO} = .993$ $K = .0529$

CP 310-320

| | | | | | | | | | | |
|------|-------|------|------|------|------|------|------|-------|-------|-------|
| .105 | 1.002 | .971 | .752 | .619 | .373 | .161 | .011 | -.090 | -.101 | -.084 |
|------|-------|------|------|------|------|------|------|-------|-------|-------|

CP 321-329

| | | | | | | | |
|------|------|------|------|------|-------|------------------|------------------|
| .927 | .773 | .395 | .226 | .120 | -.023 | -.045 | -.044 |
|------|------|------|------|------|-------|------------------|------------------|

| | | | | | | | | | | |
|----|---------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|
| P3 | 301-309 | 12.375 | 11.745 | 13.887 | 12.119 | 12.570 | 12.870 | 12.886 | 12.877 | 12.886 |
|----|---------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|

Ps 201-206 12.889 12.878 12.727 12.777 12.579 12.603

P# 207-212 12.122 12.123 12.161 12.173 12.14 12.083

| | | | | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 213-224 | 10.859 | 10.309 | 10.235 | 10.802 | 11.986 | 12.268 | 12.396 | 12.408 | 12.403 | 12.778 | 13.119 | 13.244 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pz | 225-236 | 13.634 | 11.997 | 10.892 | 10.939 | 11.522 | 12.241 | 12.397 | 12.448 | 12.478 | 12.642 | 12.970 | 13.122 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | |
|------------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|
| Pa 237-245 | 14.314 | 13.994 | 13.133 | 14.157 | 12.167 | 12.575 | 12.914 | 13.005 | 13.202 |
|------------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|

$P_{EW} = 12.742$ $L = .0209$ $P_{EB} = 12.135$ $P_{EC}/P_{EW} = 1.164$ $W_C = 1.79$ $T = 96.$ $B = 29.92$

Run 4-24 C1 I2 S2 B1 Eng 2 $\alpha=4^\circ$ $\beta=0^\circ$ m/m²= 0.731

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ 1.000 .999 1.000 1.000 1.000 .999 .996 .992 ~~.986~~ .984

Cp 330-344

~~.000~~ -.359 -.523 -.514 -.350 .401 -.271 -.638 -.800 -.716 -.602 -.412 -1.076 -.445 -.914

Pt/Pto 101-130

.983 .971 .961 .94 .936 .993 1.000 .997 .974 .957
1.000 1.000 1.000 1.000 .990 .971 1.000 1.000 1.000 1.000
.999 .992 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.796 Ptc/Pto = .991 K = .0555

Cp 310-320

.669 .955 .805 .540 .408 .177 .010 -.107 -.178 -.129 -.076

Cp 321-329

.933 .564 .508 .395 .219 -.018 -.019 -.020

Ps 301-309 11.908 11.603 ~~13.663~~ 11.738 12.291 12.784 12.838 12.823 12.84

Ps 201-206 12.958 12.833 12.695 12.742 12.533 12.566

Ps 207-212 12.078 12.073 12.116 12.125 12.104 12.037

Ps 213-224 12.115 11.038 10.721 11.152 12.063 12.296 12.390 12.379 12.361 12.725 13.071 13.200

Ps 225-236 13.158 11.534 10.682 10.885 11.276 11.840 12.038 12.184 12.287 12.616 12.913 13.070

Ps 237-245 14.922 14.008 13.166 ~~12.174~~ 12.199 12.574 12.888 12.965 13.162

Pcv = 12.707 L = .0215 Pcb = 12.090 Ptc/Pcv = 1.164 Wc = 1.79 T = 96. B = 29.92

Pt/Pto 131-144

| | | | | | | | | | | | |
|------------------|-------|------------------|-------|------|------|-------|------|------|------|-----------------|------|
| 1.000 | 1.000 | 1.000 | 1.000 | .998 | .999 | 1.000 | .997 | .993 | .990 | .986 | .984 |
|------------------|-------|------------------|-------|------|------|-------|------|------|------|-----------------|------|

CP 330-344

| | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| -.043 | -.428 | -.678 | -.536 | -.357 | .341 | -.369 | -.729 | -.863 | -.742 | -.611 | -.408 | -1.062 | -.437 | -.892 |
|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|--------|-------|-------|

Pt/Pto 101-130

| | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|
| .985 | .961 | .977 | .994 | 1.000 | .985 | .974 |
| 1.000 | 1.000 | .998 | .975 | 1.000 | 1.000 | 1.000 |
| .938 | .994 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

$P_{TC} = 14.790$ $P_{TC}/P_{TO} = .990$ $K = .0531$

CP 310-320

| | | | | | | | | | | |
|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| .798 | .943 | .763 | .472 | .337 | .124 | -.017 | -.119 | -.178 | -.113 | -.058 |
|------|------|------|------|------|------|-------|-------|-------|-------|-------|

Cp 321-329

| | | | | | | | | |
|------|------|------|------|------|------|-----------------|-----------------|------------------|
| 0.40 | .978 | .763 | .584 | .691 | .277 | .052 | .551 | -.052 |
|------|------|------|------|------|------|-----------------|-----------------|------------------|

Pr 301-309 11.697 11.489 ~~11.329~~ 11.552 12.149 12.738 12.806 12.796 12.820

Ps 201-206 12.834 12.904 12.676 12.720 12.514 12.538

Pa 207-212 12.04 12.043 12.083 12.092 12.072 12.005

| | | | | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|
| Ps 213-224 | 12.476 | 11.274 | 10.890 | 11.238 | 12.074 | 12.290 | 12.368 | 12.34 | 12.323 | 12.683 | 13.040 | 13.173 |
|------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|

| | | | | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 225-236 | 12.887 | 11.355 | 10.891 | 11.057 | 11.281 | 11.551 | 11.743 | 11.933 | 12.094 | 12.532 | 12.884 | 13.037 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | |
|------------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|
| Ps 237-245 | 14.926 | 14.011 | 13.172 | 14.124 | 12.198 | 12.564 | 12.864 | 12.936 | 13.136 |
|------------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|

$$P_{CW} = 12.681 \quad L = .0216 \quad P_{CB} = 12.056 \quad W_C = 1.166 \quad T = 38. \quad B = 29.92$$

Run 4-26 C1 I2 S2 B1 Eng 2 $\alpha=0^\circ$ $\beta=-4^\circ$ $m/m^2=. 0.727$

Pt/Pto 131-144

~~1-600~~ 1.000 1.000 ~~1.000~~ 1.000 .999 1.000 1.000 1.000 1.000 .999 .996 ~~-.986~~ .984

Cp 330-344

~~-.607~~ -.231 -.530 -.470 -.333 .428 -.138 -.557 -.735 -.672 -.575 -.464 -1.195 -.424 -.896

Pt/Pto 101-130

.982 .955 .966 .952 .998 .995 1.000 .985 .977 .966
1.000 1.000 1.000 .998 .988 .980 1.000 1.000 1.000 1.000
.998 .996 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.798 Ptc/Pto = .991 K = .042

Cp 310-320

.562 .971 .817 .572 .437 .208 .037 -.079 -.164 -.141 -.102

Cp 321-329

.586 .989 .769 .577 .462 .274 ~~-.022~~ -.023 ~~-.024~~

Ps 301-309 11.870 11.583 ~~13.586~~ 11.667 12.208 12.769 12.826 12.817 12.840

Ps 201-206 12.847 12.820 12.690 12.740 12.533 12.557

Ps 207-212 12.068 12.070 12.109 12.120 12.096 12.031

Ps 213-224 11.855 10.896 10.626 11.074 12.039 12.269 12.365 12.356 12.338 12.706 13.057 13.186

Ps 225-235 12.893 11.336 10.814 11.006 11.296 11.604 11.807 11.937 12.147 12.609 12.902 13.055

Ps 237-245 14.912 14.290 13.516 ~~12.272~~ 12.409 12.684 12.918 12.970 13.158

Pcw = 12.698 L = .0212 Pcb = 12.082 Ptc/Pcw = 1.165 Wc = 1.77 T = 98. B = 23.91

Run 4-28 C1 I2 S2 B1 Eng 2 $\alpha=0^\circ$ $\beta=4^\circ$ $\mu/\pi^*=.$ 0.734, 0.728

Pt/Pto 131-144

~~1.000~~ 1.000 1.000 ~~1.000~~ 1.000 .999 .999 1.000 1.000 .999 .997 .993 .986- .984

Cp 330-344

~~1.000~~ .997 1.000 1.000 1.000 .991 1.000 1.000 .993 .957 .437 -.190 -.557 -.738 -.674 -.576 -.425 -1.083 -.462 -.961

Pt/Pto 101-130

.983 .987 .964 .946 .932 .991 1.000 1.000 .993 .957
1.000 1.000 1.000 1.000 1.000 .977 1.000 1.000 1.000 1.000
1.000 .997 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.821 Ptc/Pto = .993 K = .0542

Cp 310-320

.531 .982 .864 .599 .458 .216 .021 -.110 -.188 -.144 -.104

Cp 321-329

.951 .763 .447 .276 .176 .038 ~~-.613~~ ~~-.613~~

Ps 301-309 12.279 11.692 13.884 12.045 12.494 12.836 12.863 12.853 12.867

Ps 201-206 12.872 12.861 12.711 12.760 12.562 12.586

Ps 207-212 12.101 12.103 12.138 12.148 12.127 12.061

Ps 213-224 11.725 10.788 10.559 11.049 12.055 12.304 12.411 12.411 12.399 12.760 13.103 13.227

Ps 225-236 13.725 12.090 10.971 10.996 11.491 12.257 12.404 12.447 12.470 12.624 12.955 13.109

Ps 237-245 14.873 13.658 12.738 ~~12.336~~ 11.945 12.472 12.869 12.976 13.176

Rev = 12.725 L = .0209 Pcb = 12.113 Ptc/Pcw = 1.165 Wc = 1.79 T = 99. B = 29.91

Run 4-29 C1 I2 S2 B1 Eng 2 $\alpha=0^\circ$ $\beta=10^\circ$ $m/m^2=. 0.735, 0.725$

| | | | | | | | | | | | | |
|----------------|-----------------|-----------------|-----------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Pt/Pto 131-144 | .999 | .999 | .999 | .998 | .999 | 1.000 | .999 | .999 | .996 | .992 | .983 | .983 |
| Cp 330-344 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 |
| | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 |
| Cp 330-344 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 |
| | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 |
| Pt/Pto 101-130 | .982 | .990 | .983 | .960 | .982 | .989 | 1.000 | 1.000 | 1.000 | .957 | | |
| | .982 | .990 | .983 | .960 | .982 | .989 | 1.000 | 1.000 | 1.000 | .957 | | |
| | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .971 | 1.000 | 1.000 | 1.000 | 1.000 | | |
| | 1.000 | .997 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | |
| Ptc = 14.828 | Ptc/Pto = .994 | K = .0436 | | | | | | | | | | |
| Cp 310-320 | .420 | .933 | .819 | .544 | .398 | .143 | -.062 | -.201 | -.273 | -.215 | -.181 | |
| Cp 321-329 | .907 | .425 | .140 | .011 | -.059 | -.145 | -.055 | -.056 | -.054 | | | |
| Ps 301-309 | 12.568 | 11.698 | 13.678 | 12.112 | 12.516 | 12.816 | 12.864 | 12.842 | 12.852 | | | |
| Ps 201-206 | 12.854 | 12.842 | 12.699 | 12.747 | 12.544 | 12.567 | | | | | | |
| Ps 207-212 | 12.079 | 12.079 | 12.116 | 12.127 | 12.105 | 12.038 | | | | | | |
| Ps 213-224 | 11.552 | 10.652 | 10.466 | 10.963 | 12.028 | 12.277 | 12.387 | 12.389 | 12.377 | 12.742 | 13.090 | 13.212 |
| Ps 225-236 | 14.223 | 12.741 | 11.548 | 11.438 | 11.776 | 12.437 | 12.529 | 12.543 | 12.531 | 12.605 | 12.938 | 13.098 |
| Ps 237-245 | 14.645 | 12.998 | 11.974 | 12.157 | 11.458 | 12.278 | 12.769 | 12.923 | 13.142 | | | |
| Pcw = 12.709 | L = .0209 | Feb = 12.091 | Ptc/Pcw = 1.167 | Wc = 4.96 | T = 40: | B = 29.90 | | | | | | |

| | | | | | | | | | | | | | | | |
|----------------|-----------|--------------|-----------------|-----------|-----------|-----------|--------|--------|--------|--------|--------|--------|--------|-------|--------|
| Pt/Pto 131-144 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .986 | .984 | | | |
| Cp 330-344 | -1.147 | -.305 | -.593 | -.503 | -.381 | .443 | -.191 | -.565 | -.752 | -.697 | -.610 | -.493 | -1.398 | -.521 | -1.171 |
| Ft/Pto 101-130 | .976 | .958 | .951 | .932 | .997 | .992 | 1.000 | .976 | .968 | .945 | | | | | |
| | 1.000 | 1.000 | 1.000 | 1.000 | .989 | .962 | 1.000 | 1.000 | 1.000 | 1.000 | | | | | |
| | .999 | .991 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | | | |
| Ptc = 14.776 | | | Ptc/Pto = .989 | | K = .0688 | | | | | | | | | | |
| Cp 310-320 | .086 | -.251 | .898 | .698 | .553 | .296 | .089 | -.047 | -.138 | -.120 | -.082 | | | | |
| Cp 321-329 | .621 | .960 | .727 | .532 | .413 | .222 | -.031 | -.030 | -.029 | | | | | | |
| Ps 301-309 | | 11.365 | 14.654 | 14.537 | 14.678 | 11.357 | 12.076 | 12.151 | 12.145 | 12.175 | | | | | |
| Ps 201-206 | | 12.095 | 12.068 | 11.946 | 12.075 | 11.821 | 11.713 | | | | | | | | |
| Ps 207-212 | | 11.078 | 11.085 | 11.146 | 11.172 | 11.109 | 11.015 | | | | | | | | |
| Ps 213-224 | | 10.443 | n.g. | n.g. | 9.636 | 11.052 | 11.382 | 11.517 | 11.510 | 11.484 | 12.010 | 12.481 | 12.652 | | |
| Ps 225-236 | | 12.603 | 10.583 | n.g. | 9.550 | 10.126 | 10.807 | 11.076 | 11.271 | 11.416 | 11.866 | 12.275 | 12.472 | | |
| Ps 237-245 | | 14.915 | 13.791 | 12.569 | -10.844 | 11.259 | 11.760 | 12.196 | 12.303 | 12.586 | | | | | |
| Pcv = 11.953 | L = .0259 | Pcb = 11.101 | Ptc/Pcv = 1.236 | Wc = 2.05 | T = 73. | B = 29.95 | | | | | | | | | |

Run 5-8 C1 I2 S2 R1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $m/m^* = .711$ 0.798, 0.818

Pt/Pto 131-144

1.000 1.000 1.000 1.000 .999 .997 .999 .999 .998 .996 .993 .989 .985 .983

Cp 130-344

~~.999~~ .522 -.753 -.572 -.428 .270 -.430 -.819 -.916 -.756 -.610 -.453 -1.333 -.479 -1.106

Pt/Pto 101-130

.978 .905 .944 .973 .998 .994 1.000 .921 .955 .972
1.000 1.000 1.000 .953 .962 .946 1.000 1.000 1.000 .975
.981 .985 1.000 1.000 1.000 .997 .998 1.000 1.000 1.000

Pto = 14.682 Pto/Pto = .982 K = .0904

Cp 310-320

.654 ~~.449~~ .713 .494 .356 .147 .015 -.073 -.123 -.050 -.034

Cp 341-350

.837 .832 .682 .565 .340 ~~.122~~ -.145 ~~.135~~

Ps 301-309 10.766 13.827 13.730 14.046 11.314 11.771 11.040 1.012 1.087

Ps 201-206 12.076 12.029 11.965 12.083 11.802 11.694

Ps 207-212 11.052 11.065 11.145 11.155 11.097 10.996

Ps 213-224 11.932 10.452 9.836 10.185 11.192 11.459 11.534 11.470 11.406 11.863 12.343 12.540

Ps 225-236 11.614 10.109 10.279 10.212 10.535 10.577 10.602 10.676 10.780 11.605 12.099 12.349

Ps 237-245 14.930 13.900 12.842 ~~11.775~~ 11.430 11.842 12.171 12.224 12.495

Pto = 11.941 L = .0265 Pto = 11.085 Pto/Pto = 1.230 Wc = 2.01 T = 80. B = 29.95

Run 5-9 C1 10 S2 B1 Eng 2 $\alpha=0^\circ$ $\beta=-4^\circ$ $m/m^2 = .211$ 0.800, 0.820

Pt/Pto 131-144

1.000 1.000 1.000 1.000 .999 1.000 1.000 .999 1.000 .999 .995 .984 .984

Op 330-344

~~.977~~ .977 .935 .937 .998 .994 1.000 .972 .969 .949
1.000 1.000 1.000 .994 .984 .965 1.000 1.000 1.000 .999
.997 .998 1.000 .999 1.000 1.000 1.000 1.000 1.000

Pt/Pto 101-130

.977 .935 .937 .998 .994 1.000 .972 .969 .949
1.000 1.000 1.000 .994 .984 .965 1.000 1.000 1.000 .999
.997 .998 1.000 .999 1.000 1.000 1.000 1.000 1.000

Ptc = 14.753 Ptc/Pto = .987 K = .0654

Op 310-320

.167 .471 .846 .640 .500 .256 .070 -.063 -.148 -.139 -.101

Op 321-329

.374 .982 .819 .638 .518 .314 -.057 -.058 -.058

Ps 301-309 11.277 14.658 14.536 14.559 11.344 12.147 12.231 12.216 12.256

Ps 301-206 12.304 12.116 12.307 12.167 11.939 11.859

Ps 207-212 11.329 11.235 11.298 11.316 11.206 11.170

Ps 213-224 10.615 9.750 n.r. 9.937 11.223 11.521 11.636 11.621 11.568 12.085 12.542 12.710

Ps 225-236 12.273 10.432 9.860 10.091 10.402 10.661 10.861 11.082 11.277 11.966 12.345 12.533

Ps 237-245 14.916 14.172 13.133 11.444 11.563 12.005 12.326 12.400 12.660

P.V. = 12.067 L = .0246 Pch = 11.254 Ptc/Pcu = 1.223 W = 2.00 T = 80. B = 29.95

Run 5-10 C1 I2 S2 B1 Eng 2 2.2.78 A=10° m/m² = .44± 0.795, 0.820

| | | | | | | | | | | | | | | | |
|----------------|-----------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|--------|--------|--------|-------|--------|
| Pt/Pto 131-144 | .999 | .999 | .999 | .999 | .998 | .999 | 1.000 | .999 | .999 | .999 | .980 | .981 | | | |
| Cp 320-344 | .944 | -.161 | -.519 | -.504 | -.417 | .349 | -.240 | -.591 | -.762 | -.710 | -.626 | -.781 | -1.837 | -.503 | -1.068 |
| Pt/Pto 101-130 | .973 | .903 | .950 | .952 | .999 | .997 | 1.000 | .927 | .959 | .902 | | | | | |
| | 1.000 | 1.000 | 1.000 | .950 | .965 | .945 | 1.000 | 1.000 | 1.000 | .971 | | | | | |
| | .981 | .989 | .999 | 1.000 | .999 | .994 | .998 | 1.000 | 1.000 | .999 | | | | | |
| Pts = 14.665 | Pto/Pto = | .981 | K = | .0984 | | | | | | | | | | | |
| Cp 310-340 | .097 | .499 | .093 | .534 | .394 | .159 | .007 | -.116 | -.197 | -.116 | -.178 | | | | |
| Cp 321-329 | .927 | .914 | .935 | .669 | .454 | -.122 | -.124 | -.124 | -.124 | -.124 | -.124 | | | | |
| Ps 201-309 | 10.755 | 14.44 | 14.019 | 14.256 | 11.399 | 12.035 | 10.101 | 12.079 | 12.154 | | | | | | |
| Ps 201-206 | 17.243 | 15.107 | 12.944 | 12.145 | 11.864 | 11.774 | | | | | | | | | |
| Ps 207-214 | 11.150 | 11.170 | 11.149 | 11.254 | 11.292 | 11.103 | | | | | | | | | |
| Ps 213-224 | 10.926 | 9.875 | n.a. | 9.989 | 11.214 | 11.498 | 11.577 | 11.534 | 11.473 | 11.935 | 12.395 | 12.586 | | | |
| Ps 225-236 | 1.558 | 10.097 | 10.257 | 10.785 | 10.609 | 10.639 | 10.693 | 10.712 | 10.315 | 11.657 | 12.161 | 12.410 | | | |
| Ps 237-245 | 14.804 | 14.505 | 13.654 | 11.444 | 11.983 | 12.145 | 12.305 | 12.342 | 12.574 | | | | | | |
| Pw = 11.017 | L = .0055 | Pto = 11.189 | Pto/Pto = 1.220 | Wo = 1.96 | T = 81. | B = 29.95 | | | | | | | | | |

982.

--.585 -1.191

• 600
• 537
• 703

437

• 137

三

5

50

32

848

365

53

95.

Run 5-17 CL 10 S2 H1 Em3 2 2=4° 2=10° E/m° = .511 0.793, 0.818

Pt/Pto 131-144

.999 .999 .999 .999 .999 .999 .999 .999 .999 .982

Cp 330-344

~~.962~~ -.073 -.429 -.438 -.363 .410 -.154 -.502 -.689 -.656 -.585 -.759 -1.852 -.476 -1.050

Pt/Pto 101-130

.973 .909 .954 .951 1.000 .997 1.000 .925 .953 .961
1.000 1.000 1.000 .953 .971 .974 1.000 1.000 1.000 .979
.986 .990 1.000 1.000 1.000 .998 .999 1.000 1.000 1.000

Ptc = 14.702 Ptc/Ptc = .983 K = .0023

Cp 310-320

~~-.044~~ ~~-.632~~ .756 .516 .466 .236 .063 -.059 -.151 -.174 -.155

Cp 321-329

-.083 .956 .914 .760 .644 .434 -.115 ~~-.152~~ ~~-.155~~

Ps 301-309 10.900 14.213 14.100 14.424 11.534 12.136 12.359 12.140 12.213

Ps 301-306 12.185 12.144 12.072 12.134 11.922 11.816

Ps 307-312 11.205 11.215 11.283 11.299 11.247 11.150

Ps 313-324 10.572 9.869 n.g. 9.900 11.211 11.498 11.602 11.571 11.528 11.995 11.454 12.639

Ps 225-236 11.747 10.170 10.296 10.255 10.633 10.635 10.618 10.801 10.915 11.758 12.233 12.462

Ps 237-245 14.806 14.521 13.671 ~~11.657~~ 12.004 12.174 12.342 12.372 12.620

Pvw = 12.054 L = .0251 Pwb = 11.234 Ptc/Pvw = 1.220 Wc = 1.58 T = 84. B = 29.97

Run 5-18 C1 I2 S2 R1 Ent 2 $\alpha=4^\circ$ $\beta=4^\circ$ $m/\pi^2=.711$ 0.804, 0.820

Pt/Pto 131-144

1.000 1.000 1.000 1.000 1.000 .999 1.000 1.000 .999 1.000 .984 .984 .984

Cp 330-344

~~.976~~ -.161 -.480 -.444 -.344 .468 -.118 -.430 -.676 -.642 -.530 -1.439 -.474 -1.070

Pt/Pto 101-130

.976 .943 .956 .937 .938 .995 1.000 .784 .972 .949
1.000 1.000 1.000 .999 .967 .965 1.000 1.000 1.000 1.000
.999 .993 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.785 Pto/Pto = .988 K = .0645

Cp 310-320

.018 ~~.655~~ .920 .699 .563 .314 .115 -.016 -.115 -.122 -.093

Cp 321-329

.515 .995 .852 .589 .468 .270 ~~.072~~ -.071 -.071

Ps 301-309 11.449 10.770 14.660 10.793 11.458 12.102 12.204 12.262 14.300

Ps 301-206 12.232 12.197 12.090 12.215 11.968 11.849

Ps 307-212 11.264 11.271 11.332 11.348 11.298 11.207

Ps 213-224 10.443 9.541 n.g. 9.836 11.216 11.521 11.560 11.655 11.630 12.129 12.579 12.745

Ps 225-236 12.441 12.552 9.701 9.361 10.385 10.751 11.031 11.258 11.430 12.005 12.386 12.559

Ps 237-245 14.921 14.183 13.193 ~~11.008~~ 11.673 12.025 12.353 12.433 11.594

Pto = 12.095 L = .0246 Pto = 11.287 Pto/Pto = 1.222 Wc = 2.00 T = 95. R = 29.97

Run 5-19 C1 IC S2 R1 Eng 2 0-4° 2-4° $\pi/m^2 = .111$ 0.808, 0.819

Pt/Pto 131-144

1.000 1.000 1.000 .999 1.000 .999 1.000 1.000 .999 .999 .993 .994 .984 .984

Cp 330-344

~~1.000~~ .996 .986 .949 .930 .930 .992 1.000 1.000 .982 .946
-1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Pt/Pto 101-130

.976 .982 .949 .930 .930 .992 1.000 1.000 .982 .946
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.309 Ptc/Pto = .990 K = .0704

Cp 310-320

~~1.000~~ .979 .921 .732 .567 .322 .091 -.058 -.154 -.144 -.120

Cp 321-329

.877 .798 .476 .282 .168 .016 ~~-.050~~ ~~-.051~~ ~~-.041~~

Ps 301-309 11.356 10.909 10.862 11.197 11.803 12.278 12.314 12.232 12.321

Ps 201-206 12.251 12.229 12.100 12.235 11.983 11.885

Ps 207-212 11.286 11.290 11.348 11.367 11.317 11.226

Ps 213-224 10.171 n.s. n.s. 9.737 11.216 11.560 11.702 11.591 12.183 12.629 12.785

Ps 225-236 13.295 11.320 9.799 9.816 10.502 11.478 11.692 11.764 11.799 12.008 12.439 12.625

Ps 237-245 14.895 13.477 12.303 ~~11.583~~ 11.138 11.797 12.303 12.440 12.712

Pw = 12.114 L = .0247 Pb = 11.306 Ptc/Pcw = 1.222 Wc = 2.00 T = 85. B = 29.97

Run 5-20 C1 I2 S2 B1 Err 2 $\alpha = 4^\circ$ $A = 10^\circ$ $m/m^2 = .773$ 0.812, 0.817

| | | | | | | | | | | | | | |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Pt/Pto 131-144 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .998 | .993 | .982 | .982 |
| Cp 330-344 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 |
| | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 |
| Pt/Pto 101-130 | .975 | .985 | .976 | .952 | .979 | .988 | 1.000 | 1.000 | 1.000 | 1.000 | .947 | | |
| | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .966 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | |
| | 1.000 | .997 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | |
| Ptc = 14.837 | Ptc/Pto = .992 | K = .0539 | | | | | | | | | | | |
| Cp 310-320 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 |
| | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 | .999 |
| Cp 321-329 | .874 | .516 | .163 | .010 | -.060 | -.188 | -.110 | -.110 | -.110 | -.110 | -.110 | -.110 | -.110 |
| Ps 301-309 | 12.228 | 10.783 | 10.831 | 11.254 | 11.799 | 12.238 | 12.313 | 12.271 | 12.288 | | | | |
| Ps 201-206 | 12.228 | 12.205 | 12.088 | 12.228 | 11.953 | 11.858 | | | | | | | |
| Ps 207-212 | 11.249 | 11.257 | 11.314 | 11.330 | 11.279 | 11.190 | | | | | | | |
| Ps 213-224 | 9.946 | n.a. | n.a. | 9.643 | 11.170 | 11.519 | 11.670 | 11.675 | 11.658 | 12.155 | 12.612 | 12.768 | |
| Ps 225-236 | 13.865 | 12.014 | 10.425 | 10.289 | 10.783 | 11.675 | 11.830 | 11.952 | 11.847 | 11.977 | 12.415 | 12.613 | |
| Ps 237-245 | 14.729 | 12.862 | 11.554 | 11.382 | 14.597 | 11.585 | 12.190 | 12.379 | 12.669 | | | | |
| Pov = 12.093 | L = .0249 | Pov = 11.270 | Ptc/Pov = 1.227 | Wc = 2.01 | T = 86. | B = 29.97 | | | | | | | |

Run 1-12 C1 I2 S2 BC Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ $m/\pi^*=.338$ 0.374

Pt/Pto 131-144

1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 .999- .999

Cp 33C-344

-.000 -.000 -.000 -.000 -.000 -.000 -.000 -.000 -.000 -.000 -.001 -.001 -.001 -.003 -.001 -.003

Pt/Ptc 101-130

.986 .974 .985 .998 .997 .997 .999 .974 .990 1.000
 .999 .999 .991 .976 .987 .999 .999 1.000 .995 .981
 .986 1.000 1.000 1.000 .999 .999 .999 1.000 1.000 1.000

Ptc = 14.400 Ptc/Ptc = .993 K = .0266

Cp 310-320

-.019 -.006 -.003 -.002 -.001 -.001 -.000 -.000 -.000 -.000 -.000 -.000 -.000 -.000

Cp 321-329

-.021 -.008 -.003 -.001 -.001 -.001 -.000 -.000 -.000 -.000 -.000 -.000

Ps 301-309 12.547 12.354 16.353 13.556 13.519 13.095 13.994 12.967 13.987

Ps 201-206 13.380 12.970 13.070 13.009 13.014 13.922

Ps 207-212 13.305 12.390 13.041 13.515 13.503 13.791

Ps 213-224 13.535 12.525 13.530 13.524 13.529 13.552 13.015 13.593 13.770 13.034 13.081 14.345

Ps 225-236 13.170 13.322 13.403 13.035 12.696 13.701 13.702 13.702 14.067 13.942 13.039 13.989

Ps 237-245 14.439 14.277 14.085 13.435 14.177 14.255 13.976 14.092 14.040

Pov = 13.955 L = .0050 Pcb = 12.613 Ptc/Ptc = 1.032 Kc = .20 K = 58. E = 29.50

Run 1-1 C1 I2 I0 S2 Eng 2 2=0° 2=0° m/m=1.610 0.672

| | | | | | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| Pt/Ptc 131-144 | | | | | | | | | | | | | | |
| 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Cp 330-344 | | | | | | | | | | | | | | |
| .000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 |
| Pt/Ptc 101-130 | | | | | | | | | | | | | | |
| .964 | .921 | .903 | .980 | .925 | .988 | .955 | .931 | .973 | .999 | | | | | |
| .973 | .955 | .939 | .939 | .972 | .999 | .999 | .999 | .999 | .952 | | | | | |
| .974 | 1.000 | 1.000 | 1.000 | 1.000 | .981 | .993 | 1.000 | 1.000 | 1.000 | | | | | |
| Ptc = 14.263 Ptc/Fto = .984 K = .0816 | | | | | | | | | | | | | | |
| Cp 310-320 | | | | | | | | | | | | | | |
| -.076 | -.023 | -.010 | -.005 | -.003 | -.001 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 | -.000 |
| Cp 321-329 | | | | | | | | | | | | | | |
| -.065 | -.023 | -.008 | -.004 | -.003 | -.001 | -.000 | -.000 | -.000 | -.000 | | | | | |
| Ps 301-309 | | | | | | | | | | | | | | |
| 12.539 | 10.637 | 15.722 | 11.124 | 12.085 | 12.653 | 12.651 | 12.571 | 12.617 | | | | | | |
| Ps 201-206 | | | | | | | | | | | | | | |
| 12.621 | 12.574 | 12.567 | 12.545 | 12.343 | 12.360 | | | | | | | | | |
| Ps 207-212 | | | | | | | | | | | | | | |
| 11.928 | 11.966 | 12.038 | 11.967 | 11.963 | 11.901 | | | | | | | | | |
| Ps 213-224 | | | | | | | | | | | | | | |
| 9.565 | 9.565 | 9.503 | 10.955 | 11.600 | 11.899 | 12.044 | 12.091 | 12.093 | 12.414 | 12.707 | 13.843 | | | |
| Ps 225-236 | | | | | | | | | | | | | | |
| 9.924 | 10.215 | 10.559 | 11.149 | 11.711 | 11.768 | 11.749 | 11.751 | 13.407 | 12.168 | 12.513 | 12.711 | | | |
| Ps 237-245 | | | | | | | | | | | | | | |
| 14.458 | 13.692 | 12.983 | 12.745 | 13.290 | 13.590 | 12.650 | 13.030 | 12.954 | | | | | | |
| Pcv = 12.502 L = .0175 Pcv = 11.904 Ftc/Fcv = 1.141 Wc = 1.69 T = 58. B = 29.49 | | | | | | | | | | | | | | |

| Run | χ^2_{min} | α | β | m/E^* | 0.671 | | | |
|-----|-----------------------|----------|---------|---------|------------------|-----------------|---------------|-------|
| 1-2 | | | | | | | | |
| C1 | 12 | BO | 32 | Erg 2 | $\alpha=0^\circ$ | $\beta=0^\circ$ | $m/E^*=0.619$ | 0.671 |

P-7to 131-144

| | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 | 2101 | 2102 | 2103 | 2104 | 2105 | 2106 | 2107 | 2108 | 2109 | 2110 | 2111 | 2112 | 2113 | 2114 | 2115 | 2116 | 2117 | 2118 | 2119 | 2120 | 2121 | 2122 | 2123 | 2124 | 2125 | 2126 | 2127 | 2128 | 2129 | 2130 | 2131 | 2132 | 2133 | 2134 | 2135 | 2136 | 2137 | 2138 | 2139 | 2140 | 2141 | 2142 | 2143 | 2144 | 2145 | 2146 | 2147 | 2148 | 2149 | 2150 | 2151 | 2152 | 2153 | 2154 | 2155 | 2156 | 2157 | 2158 | 2159 | 2160 | 2161 | 2162 | 2163 | 2164 | 2165 | 2166 | 2167 | 2168 | 2169 | 2170 | 2171 | 2172 | 2173 | 2174 | 2175 | 2176 | 2177 | 2178 | 2179 | 2180 | 2181 | 2182 | 2183 | 2184 | 2185 | 2186 | 2187 | 2188 | 2189 | 2190 | 2191 | 2192 | 2193 | 2194 | 2195 | 2196 | 2197 | 2198 | 2199 | 2200 | 2201 | 2202 | 2203 | 2204 | 2205 | 2206 | 2207 | 2208 | 2209 | 2210 | 2211 | 2212 | 2213 | 2214 | 2215 | 2216 | 2217 | 2218 | 2219 | 2220 | 2221 | 2222 | 2223 | 2224 | 2225 | 2226 | 2227 | 2228 | 2229 | 2230 | 2231 | 2232 | 2233 | 2234 | 2235 | 2236 | 2237 | 2238 | 2239 | 2240 | 2241 | 2242 | 2243 | 2244 | 2245 | 2246 | 2247 | 2248 | 2249 | 2250 | 2251 | 2252 | 2253 | 2254 | 2255 | 2256 | 2257 | 2258 | 2259 | 2260 | 2261 | 2262 | 2263 | 2264 | 2265 | 2266 | 2267 | 2268 | 2269 | 2270 | 2271 | 2272 | 2273 | 2274 | 2275 | 2276 | 2277 | 2278 | 2279 | 2280 | 2281 | 2282 | 2283 | 2284 | 2285 | 2286 | 2287 | 2288 | 2289 | 2290 | 2291 | 2292 | 2293 | 2294 | 2295 | 2296 | 2297 | 2298 | 2299 | 2300 | 2301 | 2302 | 2303 | 2304 | 2305 | 2306 | 2307 | 2308 | 2309 | 2310 | 2311 | 2312 | 2313 | 2314 | 2315 | 2316 | 2317 | 2318 | 2319 | 2320 | 2321 | 2322 | 2323 | 2324 | 2325 | 2326 | 2327 | 2328 | 2329 | 2330 | 2331 | 2332 | 2333 | 2334 | 2335 | 2336 | 2337 | 2338 | 2339 | 2340 | 2341 | 2342 | 2343 | 2344 | 2345 | 2346 | 2347 | 2348 | 2349 | 2350 | 2351 | 2352 | 2353 | 2354 | 2355 | 2356 | 2357 | 2358 | 2359 | 2360 | 2361 | 2362 | 2363 | 2364 | 2365 | 2366 | 2367 | 2368 | 2369 | 2370 | 2371 | 2372 | 2373 | 2374 | 2375 | 2376 | 2377 | 2378 | 2379 | 2380 | 2381 | 2382 | 2383 | 2384 | 2385 | 2386 | 2387 | 2388 | 2389 | 2390 | 2391 | 2392 | 2393 | 2394 | 2395 | 2396 | 2397 | 2398 | 2399 | 2400 | 2401 | 2402 | 2403 | 2404 | 2405 | 2406 | 2407 | 2408 | 2409 | 2410 | 2411 | 2412 | 2413 | 2414 | 2415 | 2416 | 2417 | 2418 | 2 |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|

CP 330-344

[illegible]

Pt/Pto 101-130

| | 1956 | 1962 | 1981 | 1993 | 1993 | 1981 | 1922 | 1974 | 1998 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.000 | 1.000 | .970 | .929 | .972 | 1.000 | 1.000 | 1.000 | .977 | .943 |
| x970 | 1.001 | 1.001 | 1.001 | 1.000 | .973 | .987 | 1.000 | 1.000 | 1.001 |

Ptc = 14.221 Ptc/Pto = .981 K = .0870

CP 310-320

[illegible]

CP 321-329

| Variable | Mean | SD | Min | Max |
|-------------------|-------|-------|-------|-------|
| Age | 38.5 | 12.5 | 18 | 65 |
| Gender | 0.5 | 0.5 | 0 | 1 |
| Marital Status | 0.3 | 0.5 | 0 | 1 |
| Education | 12.5 | 2.5 | 9 | 16 |
| Income | 45000 | 15000 | 20000 | 80000 |
| Health | 0.5 | 0.5 | 0 | 1 |
| Exercise | 0.2 | 0.4 | 0 | 1 |
| Stress | 0.6 | 0.5 | 0 | 1 |
| Depression | 0.4 | 0.5 | 0 | 1 |
| Loneliness | 0.5 | 0.5 | 0 | 1 |
| Life Satisfaction | 0.5 | 0.5 | 0 | 1 |
| Quality of Life | 0.5 | 0.5 | 0 | 1 |

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Γs 301-309 | 12.536 | 10.511 | 15.761 | 11.096 | 12.080 | 12.631 | 12.613 | 12.543 | 12.586 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

PPs 201-206 12.585 12.536 12.527 12.510 12.307 12.327

P# 207-212 11.881 11.754 12.027 11.736 11.910 11.846

PF# 213-224 n.s. 10.059 10.321 10.856 11.370 11.593 11.813 11.954 12.034 12.378 12.629 13.806

| | | | | | | | | | | | | | |
|----|---------|-------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|--------|--------|
| P8 | 225-236 | 9.800 | 10.170 | 10.691 | 11.240 | 11.657 | 11.676 | 11.657 | 11.662 | 11.618 | 12.099 | 12.453 | 12.658 |
|----|---------|-------|--------|--------|--------|--------|--------|--------|--------|-------------------|--------|--------|--------|

| | | | | | | | | | | |
|----|---------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|
| P# | 237-245 | 14.456 | 13.791 | 13.084 | 12.615 | 13.268 | 13.554 | 12.601 | 12.991 | 12.825 |
|----|---------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|

$P_{CV} = 12.465$ $L = .0195$ $P_{CB} = 11.925$ $P_{TC}/P_{CV} = 1.141$ $W_C = 1.68$ $T = 60.$ $Z = 23.48$

| Run | 1-15 | C1 | I2 | S2 | B0 | Eng | 2 | $\alpha=0^\circ$ | $\beta=0^\circ$ | $\mu/\mu^*=.610$ | 0.670 |
|-----|------|----|----|----|----|-----|---|------------------|-----------------|------------------|-------|
|-----|------|----|----|----|----|-----|---|------------------|-----------------|------------------|-------|

Pt/Pto 131-144

[illegible]

CP 330-344

[illegible]

Pt/Pto 101-130

| | | | | | | | | | |
|-------|-------|-------|-------|------|-------|-------|-------|-------|------|
| .955 | .918 | .966 | .982 | .993 | .994 | .991 | .928 | .975 | .998 |
| 1.000 | 1.000 | .999 | .938 | .971 | 1.000 | 1.000 | 1.000 | 1.000 | .953 |
| .971 | 1.000 | 1.000 | 1.000 | .999 | .979 | .989 | 1.000 | 1.000 | .999 |

$P_{TC} = 14.390$ $P_{TC}/P_{T0} = .983$ $K = .0829$

CP 310-320

| Variable | Mean | SD | Min | Max |
|--------------------|-------|-------|-------|-------|
| Age | 35.2 | 12.5 | 18 | 65 |
| Gender | 0.45 | 0.50 | 0 | 1 |
| Education | 12.8 | 1.5 | 9 | 16 |
| Income | 45000 | 15000 | 20000 | 80000 |
| Health | 0.75 | 0.25 | 0 | 1 |
| Marital | 0.60 | 0.49 | 0 | 1 |
| Employment | 0.85 | 0.36 | 0 | 1 |
| Homeownership | 0.70 | 0.46 | 0 | 1 |
| Vehicle | 0.55 | 0.50 | 0 | 1 |
| Internet | 0.90 | 0.30 | 0 | 1 |
| Smartphone | 0.95 | 0.23 | 0 | 1 |
| Travel | 0.65 | 0.48 | 0 | 1 |
| Exercise | 0.40 | 0.50 | 0 | 1 |
| Stress | 0.50 | 0.50 | 0 | 1 |
| Depression | 0.10 | 0.30 | 0 | 1 |
| Loneliness | 0.30 | 0.46 | 0 | 1 |
| Life Satisfaction | 0.60 | 0.49 | 0 | 1 |
| Overall Well-being | 0.55 | 0.50 | 0 | 1 |

CP 321-329

[illegible]

| Pa | 301-309 | 12.389 | 10.682 | 13.543 | 11.179 | 12.184 | 12.793 | 12.748 | 12.667 | 12.680 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa | 301-309 | 12.389 | 10.682 | 13.543 | 11.179 | 12.184 | 12.793 | 12.748 | 12.667 | 12.680 |

Pg 201-206 12.752 12.711 12.651 12.667 12.493 12.491

Fr 207-212 12.074 12.121 12.158 12.110 12.097 12.043

Pa' 213-224 n.g. 9.502 10.023 11.025 11.710 12.003 12.168 12.228 12.240 ~~12.577~~ 12.828 12.953

| | | | | | | | | | | | | | |
|----|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa | 225-236 | 9.962 | 10.427 | 10.968 | 11.491 | 11.855 | 11.869 | 11.854 | 11.861 | 11.880 | 12.293 | 12.643 | 12.839 |
|----|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | |
|----|---------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|
| 20 | 237-245 | 14.605 | 13.912 | 13.216 | 12.769 | 12.340 | 12.606 | 12.797 | 12.823 | 12.988 |
|----|---------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|

Rev = 12.627 L = .0181 Reb = 12.100 Ptc/Pcv = 1.140 Wc = 1.68 T = 70. B = 29.77

[illegible]

| | | | | | | | | | | |
|--------|--------|--------|------|--------|--------|--------|--------|-------|-------|-------|
| -0.000 | -0.000 | -0.001 | .000 | -0.000 | -0.000 | -0.000 | -0.002 | -.011 | -.002 | -.010 |
|--------|--------|--------|------|--------|--------|--------|--------|-------|-------|-------|

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| 1.000 | .931 | .891 | .966 | .984 | .990 | .994 | .945 | .897 | .977 | .998 |
| 1.000 | 1.000 | 1.000 | .957 | .907 | .973 | 1.000 | 1.000 | 1.000 | .977 | .928 |
| .972 | 1.000 | 1.000 | 1.000 | 1.000 | .997 | .967 | .987 | 1.000 | 1.000 | 1.000 |

| Variable | Mean | SD | Min | Max |
|-----------------|-------|-------|-----|-----|
| Age | 56.09 | 10.15 | 32 | 88 |
| Gender | 0.032 | 0.05 | 0 | 1 |
| Marital Status | 0.032 | 0.05 | 0 | 1 |
| Education | 0.032 | 0.05 | 0 | 1 |
| Income | 0.032 | 0.05 | 0 | 1 |
| Health | 0.032 | 0.05 | 0 | 1 |
| Smoking | 0.032 | 0.05 | 0 | 1 |
| Alcohol | 0.032 | 0.05 | 0 | 1 |
| Exercise | 0.032 | 0.05 | 0 | 1 |
| Stress | 0.032 | 0.05 | 0 | 1 |
| Depression | 0.032 | 0.05 | 0 | 1 |
| Loneliness | 0.032 | 0.05 | 0 | 1 |
| Quality of Life | 0.032 | 0.05 | 0 | 1 |

| | | | | | | | |
|------|------|------|------|------|------|-------|-------|
| -089 | -032 | -011 | -005 | -003 | -001 | -000- | -000- |
|------|------|------|------|------|------|-------|-------|

$P_{EV} = 12.000$ $L = .0230$ $P_{EB} = 11.312$ $P_{TC}/P_{EV} = 1.188$ $W_C = 1.85$ $T = 71.$ $B = 29.76$

Tabulated Data for Configuration C2 I1 S1 B1

(q = 33.3)

Run 36-1 C2 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ m/m* = .677 0.731

| | | | | | | | | | | | | | | |
|----------------|----------------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|-------------------|--------|--------|-------|
| Pt/Pto 131-144 | .999 | 1.000 | .999 | .997 | .992 | .988 | .999 | .999 | .999 | .998 | .993 | .988 | .978 | .981 |
| Cp 330-344 | .111 | -.216 | -.388 | -.501 | -.355 | .387 | -.137 | -.359 | -.499 | -.632 | -.619 | -.586 | -1.097 | -.537 |
| | | | | | | | | | | | | | | -.893 |
| Pt/Pto 101-130 | .972 | .974 | .961 | .954 | 1.000 | 1.000 | 1.000 | 1.000 | .981 | .958 | | | | |
| | 1.000 | 1.000 | 1.000 | 1.000 | .999 | .964 | 1.000 | 1.000 | 1.000 | 1.000 | | | | |
| | 1.000 | .984 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | | |
| Ptc = 14.757 | Ptc/Pto = .992 | K = .0470 | | | | | | | | | | | | |
| Cp 310-320 | .786 | -.730 | .764 | .507 | .352 | .071 | -.099 | -.101 | -.1.7 | -.101 | -.080 | | | |
| Cp 321-329 | .821 | 1.004 | .747 | .476 | .363 | .138 | -.008 | -.040 | -.106 | | | | | |
| Ps 301-309 | 12.031 | 11.114 | 11.599 | 12.042 | 12.372 | 12.729 | 12.858 | 12.914 | 12.955 | | | | | |
| Ps 201-206 | 12.778 | 12.843 | 12.881 | 12.813 | 12.497 | 12.540 | | | | | | | | |
| Ps 207-212 | 12.174 | 12.236 | 12.271 | 12.245 | 12.182 | 12.105 | | | | | | | | |
| Ps 213-224 | 13.589 | 11.731 | 11.288 | 11.043 | 11.152 | 11.959 | 12.106 | 12.202 | 12.235 | 13.138 | 13.163 | 13.097 | | |
| Ps 225-236 | 13.766 | 12.347 | 10.960 | 10.512 | 10.440 | 10.771 | 11.638 | 11.722 | 11.842 | 12.735 | 13.120 | 13.343 | | |
| Ps 237-245 | 14.168 | 14.168 | 14.167 | 14.170 | 14.167 | 13.228 | 12.661 | 12.545 | 12.502 | | | | | |
| Pcv = 12.725 | L = .0260 | PeB = 12.202 | Ptc/Pcv = 1.160 | Wc = 1.82 | T = 61. | B = 29.81 | | | | | | | | |

Run 36-2 C2 I1 S1 B1 Eng 2 $\alpha = -10^\circ$ $\beta = 0^\circ$ $m/m^* = .677$ 0.732

| | | | | | | | | | | | | |
|---------------------------------------|-----------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|--------|--------------------|
| Pt/Pto 131-144 | | | | | | | | | | | | |
| 1.000 | 1.000 | 1.000 | .999 | .995 | .991 | .999 | 1.000 | 1.000 | 1.000 | .997 | .991 | .979 .981 |
| Cp 330-344 | | | | | | | | | | | | |
| .117 | -.134 | -.293 | -.433 | -.312 | .509 | .071 | -.147 | -.299 | -.460 | -.479 | -.527 | -1.094 -.482 -.890 |
| Pt/Pto 101-130 | | | | | | | | | | | | |
| .970 | .972 | .964 | .954 | 1.000 | 1.000 | 1.000 | 1.000 | .991 | .959 | | | |
| 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .969 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| 1.000 | .990 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| Ptc = 14.755 Ptc/Pto = .992 K = .0470 | | | | | | | | | | | | |
| Cp 310-320 | | | | | | | | | | | | |
| .404 | -.747 | .890 | .698 | .548 | .254 | .007 | -.018 | -.070 | -.072 | -.073 | | |
| Cp 321-329 | | | | | | | | | | | | |
| .855 | .886 | .534 | .278 | .173 | -.021 | -.135 | -.125 | -.146 | | | | |
| Ps 301-309 | 12.300 | 1.158 | 11.712 | 12.166 | 12.469 | 12.682 | 12.804 | 12.872 | 12.909 | | | |
| Ps 201-206 | 12.733 | 12.795 | 12.841 | 12.767 | 12.440 | 12.491 | | | | | | |
| Ps 207-212 | 12.114 | 12.178 | 12.215 | 12.186 | 12.119 | 12.041 | | | | | | |
| Ps 213-224 | 13.106 | 11.242 | 10.897 | 10.778 | 10.943 | 11.872 | 12.025 | 12.137 | 12.175 | 13.103 | 13.159 | 13.058 |
| Ps 225-236 | 13.958 | 12.594 | 11.139 | 10.626 | 10.480 | 10.804 | 11.629 | 11.690 | 11.798 | 12.688 | 13.102 | 13.357 |
| Ps 237-245 | 14.157 | 14.159 | 14.159 | 14.160 | 14.158 | 13.185 | 12.817 | 12.498 | 12.452 | | | |
| Pcv = 12.678 | L = .0271 | Pcb = 12.142 | Ptc/Pcv = 1.164 | Wc = 1.84 | T = 63. | B = 29.79 | | | | | | |

Run 36-3 C2 I1 S1 B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ m/m*=-.677 0.739, 0.730

Pt/Pto 131-144

1.000 1.000 1.000 1.000 .998 .994 .999 1.000 1.000 1.000 .999 .994 .980 .981

Cp 330-344

.104 -.042 -.175 -.331 -.249 .650 .318 .125 -.032 -.203 -.254 -.387 -1.020 -.352 -.801

Pt/Pto 101-130

.968 .973 .959 .957 1.000 1.000 1.000 1.000 .997 .967
1.000 1.000 1.000 1.000 .980 1.000 1.000 1.000 1.000
1.000 .997 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.775 Ptc/Pto = .993 K = .0432

Cp 310-320

-.174 ~~-.726~~ .987 .865 .740 .456 .137 .087 .038 .005 -.020

Cp 321-329

.782 .713 .313 .050 -.044 -.221 -.325 -.282 -.265

Ps 301-309 12.660 11.320 12.003 12.441 12.670 12.740 12.857 12.924 12.964

Ps 201-206 12.783 12.848 12.900 12.817 12.493 12.544

Ps 207-212 12.173 12.236 12.275 12.248 12.182 12.106

Ps 213-224 12.521 10.791 10.594 10.645 10.852 11.887 12.060 12.181 12.227 13.143 ~~13.170~~ 13.097

Ps 225-236 14.112 12.840 11.415 10.881 10.687 10.984 11.746 11.794 11.887 12.738 13.151 13.416

Ps 237-245 14.189 14.189 14.190 14.190 14.189 13.229 12.865 12.552 12.508

Pev = 12.731 L = .0275 Peb = 12.203 Ptc/Pev = 1.161 Wc = 1.82 T = 64. B = 29.80

Run 36-4 C2 I1 S1 B1 Eng $\alpha=10^\circ$ $\beta=0^\circ$ $m/m^2=$ **677** 0.727, 0.731

Pt/Pto 131-144

.999 .998 .996 .993 .989 .986 .998 .998 .993 .985 .976 .979

Cp 330-344

.076 -.293 -.464 -.547 -.393 .285 -.304 -.512 -.621 -.718 -.674 -.583 -1.064 -.536 -.865

Pt/Pto 101-130

.974 .968 .963 .951 1.000 1.000 1.000 .996 .977 .954
1.000 1.000 1.000 .999 .994 .957 1.000 1.000 1.000
1.000 .973 1.000 1.000 1.000 1.000 .999 1.000 1.000

Ptc = 14.732 Ptc/Pto = .990 K = .0497

Cp 310-320

.891 ~~-.799~~ .575 .336 .194 -.055 -.137 -.127 -.130 -.087 -.053

Cp 321-329

.571 .990 .852 .630 .510 .261 .041 -.043 -.142

Ps 301-309 11.646 10.835 11.340 11.808 12.180 12.661 12.799 12.858 12.895

Ps 201-206 12.720 12.786 12.825 12.757 12.430 12.479

Ps 207-212 12.100 12.160 12.202 12.173 12.108 12.031

Ps 213-224 13.909 12.054 11.529 11.158 11.203 11.913 12.075 12.157 12.180 13.085 ~~13.129~~ 13.049

Ps 225-236 13.428 1.972 10.640 10.264 10.302 10.664 1.486 11.627 11.778 12.651 13.021 13.253

Ps 237-245 14.146 14.149 14.147 14.152 14.150 13.171 12.798 12.476 12.436

Pcw = 12.666 L = .0268 Pcb = 12.129 Ptc/Pcw = 1.163 Wc = 1.83 T = 65. B = 29.80

Run 36-5 C2 IL S1 B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ m/m*=-.677 0.730, 0.733

Pt/Pto 131-144
.999 .998 .995 .992 .989 .986 .998 .998 .996 .993 .990 .986 .976 .979

Cp 330-344
.022 -.353 -.510 -.561 -.421 .228 -.391 -.587 -.661 -.721 -.652 -.527 -1.039 -.491 -.840

Pt/Pto 101-130
.975 .954 .947 .956 1.000 1.000 1.000 .979 .958 .956
1.000 1.000 .991 .978 .960 1.000 1.000 1.000 .999
.995 .977 1.000 1.000 1.000 1.000 1.000 .999 1.000 1.000

Ptc = 14.691 Ptc/Pto = .987 K = .0543

Cp 310-320
.903 -.742-. .439 .232 .105 -.104 -.117 -.091 -.092 -.051 -.037

Cp 321-329
.100 .886 .881 .723 .607 .331 .026 -.108 -.236

Ps 301-309 11.626 10.967 11.132 11.430 11.772 12.596 12.737 12.792 12.835

Ps 201-206 12.658 12.726 12.769 12.702 12.362 12.410

Ps 207-212 12.018 12.082 12.127 12.092 12.028 11.951

Ps 213-224 14.105 12.279 11.700 11.241 11.231 11.850 12.043 12.111 12.125 13.024 ~~13.089~~ 12.990

Ps 225-236 12.951 11.502 10.273 10.018 10.164 10.713 11.365 11.544 11.710 12.565 12.936 13.174

Ps 237-245 14.145 14.146 14.144 14.148 14.145 13.114 12.730 12.394 12.361

Pcw = 12.605 L = .0277 Pcb = 12.049 Ptc/Pcw = 1.165 Wc = 1.83 T = 65. B = 29.80

Run 36-6 C2 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=-10^\circ$ $m/m^*=.677$ 0.731, 0.735

Pt/Pto 131-144

.999 .999 .997 .992 .988 .999 .999 .999 .999 .994 .989 .976 .979

Cp 330-344

.291 -.051 -.274 -.474 -.429 .313 -.177 -.399 -.535 -.653 -.649 -1.188 -.599 -1.030

Pt/Pto 101-130

.967 .921 .969 .966 1.000 1.000 .934 .976 .962
1.000 1.000 1.000 .947 .972 .966 1.000 1.000 .966
.980 .984 1.000 1.000 1.000 .994 .997 .999 1.000 1.000

Ptc = 14.627 Ptc/Pto = .983 K = .0801

Cp 310-320

.453 ~~-.740~~ .596 .409 .270 -.000' -.187 -.206 -.212 -.185 -.167

Cp 321-329

-.122 .866 .962 .823 .712 .450 .189 .082 -.032

Ps 301-309 11.380 14.037 10.822 11.445 11.975 12.430 12.532 12.558 12.641

Ps 201-206 12.516 12.602 12.629 12.558 12.197 12.246

Ps 207-212 11.829 11.912 11.976 11.905 11.832 11.757

Ps 213-224 13.361 11.351 10.866 10.573 10.679 11.610 11.769 11.877 11.910 12.842 ~~12.965~~ 12.837

Ps 225-236 12.639 11.117 9.932 9.844 10.192 10.713 11.100 11.315 11.471 12.229 12.658 12.941

Ps 237-245 14.117 14.118 14.117 14.120 14.118 12.898 12.554 12.181 12.164

Pev = 12.456 L = .0296 Feb = 11.868 Ptc/Pew = 1.174 Wc = 1.86 T = 65. B = 29.80

Run 36-7 C2 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=10^\circ$ $m/m^* = .677$ 0.737, 0.728

Pt/Pto 131-144

.999 1.000 1.000 .998 .993 .989 .997 .998 .998 .997 .992 .986 .977 .980

Cp 330-344

-.225 -.520 -.638 -.684 -.461 .334 -.186 -.393 -.521 -.677 -.648 -.627 -1.186 -.597 -.924

Pt/Pto 101-130

.975 .984 .983 .944 .996 1.000 1.000 1.000 1.000 .955
1.000 1.000 1.000 1.000 .969 1.000 1.000 1.000 1.000
1.000 .996 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.777 Ptc/Pto = .993 K = .0562

Cp 310-320

.785 ~~.711~~ .693 .463 .298 .010 -.150 -.147 -.204 -.183 -.173

Cp 321-329

.955 .641 .192 -.013 -.075 -.197 -.220 -.181 -.165

Ps 301-309 12.584 11.434 12.113 12.483 12.653 12.719 12.818 12.894 12.927

Ps 201-206 12.736 12.799 12.862 12.774 12.453 12.501

Ps 207-212 12.126 12.187 12.216 12.196 12.133 12.053

Ps 213-224 13.663 11.915 11.502 11.277 11.366 12.056 12.206 12.267 12.269 13.115 ~~13.065~~ 13.071

Ps 225-236 14.461 13.344 12.012 11.433 11.095 11.377 11.890 11.912 11.963 12.717 13.135 13.426

Ps 237-245 14.135 14.133 14.135 14.138 14.133 13.175 12.824 12.517 12.471

Pev = 12.687 L = .0277 Pev = 12.152 Ptc/Pev = 1.165 Wc = 1.84 T = 65. B = 29.80

Run 37-1 C2 I1 S1 B1 Eng 2 $\alpha=0^\circ$ $\beta=0^\circ$ m/m² = .711 0.822, 0.318

| | | | | | | | | | | | | | |
|----------------|----------------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|-------------------|--------|--------------|
| Pt/Pto 131-144 | .999 | .999 | .997 | .992 | .988 | .999 | .999 | .999 | .998 | .993 | .988 | .975 | .979 |
| Cp 33C-344 | .104 | -.230 | -.403 | -.526 | -.402 | .377 | -.153 | -.385 | -.524 | -.669 | -.689 | -1.393 | -.632 -1.141 |
| Pt/Pto 101-130 | .960 | .957 | .955 | .942 | .999 | 1.000 | 1.000 | .998 | .967 | .943 | | | |
| | 1.000 | 1.000 | 1.000 | 1.000 | .990 | .945 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | |
| | 1.000 | .971 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | 1.000 | 1.000 | |
| Ptc = 14.690 | Ptc/Pto = .987 | K = .0590 | | | | | | | | | | | |
| Cp 310-320 | .424 | -.714 | .822 | .603 | .442 | .138 | -.072 | -.087 | -.114 | -.099 | -.076 | | |
| Cp 321-329 | .545 | .978 | .796 | .561 | .439 | .197 | .018 | -.024 | -.098 | | | | |
| Ps 301-309 | 11.180 | 13.471 | 14.279 | 10.914 | 11.397 | 11.912 | 12.084 | 12.160 | 12.210 | | | | |
| Ps 201-206 | 11.947 | 12.040 | 12.086 | 11.998 | 11.565 | 11.628 | | | | | | | |
| Ps 207-212 | 11.083 | 11.175 | 11.231 | 11.173 | 11.071 | 10.970 | | | | | | | |
| Ps 213-224 | 12.989 | 10.637 | 10.048 | 9.620 | 9.679 | 10.721 | 11.052 | 11.188 | 11.227 | 12.476 | 12.689 | 12.412 | |
| Ps 225-236 | 13.263 | 11.549 | 9.708 | n.g. | n.g. | n.g. | 10.409 | 10.555 | 10.756 | 11.924 | 12.400 | 12.700 | |
| Ps 237-245 | 13.976 | 13.977 | 13.978 | 13.981 | 13.977 | 12.555 | 12.090 | 11.650 | 11.600 | | | | |
| Pcw = 11.877 | L = .0355 | Peb = 11.117 | Ptc/Pcw = 1.237 | Wc = 2.06 | T = 65. | B = 29.80 | | | | | | | |

Run 37-2 C2 I1 S1 B1 Eng 2 $\alpha = -10^\circ$ $\beta = 0^\circ$ $m/m^* = .711$ 0.817, 0.820

Pt/Pto 131-144
 .999 .999 1.000 .999 .995 .990 .999 .999 .999 1.000 .997 .991 .976 .980
 Cp 330-344
 .114 -.143 -.306 -.453 -.352 .500 .061 -.156 -.317 -.484 -.515 -.621 -1.373 -.568 -1.115

Pt/Pto 101-130
 .959 .960 .948 .943 .939 1.000 1.000 .967 .947
 1.000 1.000 1.000 .958 1.000 1.000 1.000 1.000
 1.000 .985 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.708 Ptc/Pto = .989 K = .0581

Cp 310-320
 .004 -.71e .934 .767 .621 .311 .024 -.005 -.057 -.067 -.076

Cp 321-329
 .682 .916 .638 .364 .240 .026 -.109 -.110 -.138

Ps 301-309 11.606 13.819 14.521 11.113 11.569 11.969 12.124 12.203 12.262

Ps 201-206 11.995 12.084 12.134 12.045 11.612 11.675

Ps 207-212 11.142 11.232 11.288 11.232 11.130 11.033

Ps 213-224 12.473 10.174 9.706 n.g. 9.616 10.716 11.076 1 .226 11.272 12.519 ~~12.629~~ 12.452

Ps 225-236 13.526 11.840 9.991 n.g. n.g. 10.560 10.649 10.801 11.992 12.495 12.786

Ps 237-245 13.994 13.994 13.995 13.995 13.993 12.597 12.138 11.706 11.654

Pev = 11.924 L = .0355 Feb = 11.176 Ptc/Pev = 1.233 Wc = 2.05 T = 65. B = 29.80

Run 37-3 C2 I1 S1 B1 Eng 2 C=10° $\beta=0^\circ$ m/m*=.711 0.808

Pt/Pto 131-144

.999 .999 .997 .993 .989 .986 .998 .998 .996 .993 .988 .984 .973 .977

Cp 33C-344

.078 -.300 -.476 -.577 -.433 .284 -.311 -.529 -.644 -.748 -.716 -.681 -1.351 -.627 -1.102

Pt/Pto 101-130

.966 .926 .955 .951 1.000 1.000 1.000 .950 .966 .947
1.000 1.000 .969 .977 .938 1.000 1.000 .989
.993 .952 1.000 1.000 1.000 1.000 .997 1.000 1.000

Ptc = 14.623 Ptc/Pto = .983 K = .0760

Cp 31C-320

.708 ~~.700~~ .695 .386 .235 -.022 -.108 -.087 -.118 -.077 -.046

Cp 321-329

.463 .976 .916 .705 .579 .313 .066 -.023 -.131

Ps 301-309 10.669 13.152 14.161 10.811 11.336 11.903 12.096 12.165 12.211

Ps 201-206 11.959 12.053 12.039 12.006 11.576 11.636

Ps 207-212 11.095 11.187 11.246 11.194 11.086 10.985

Ps 213-224 13.411 11.088 10.421 9.874 9.863 10.875 11.110 11.220 11.247 12.467 ~~12.546~~ 12.415

Ps 225-236 12.913 11.189 9.474 n.g. n.g. 10.249 10.547 10.772 11.867 12.362 12.674

Ps 237-245 13.977 13.979 13.979 13.981 13.979 12.560 12.085 11.647 11.601

Pcw = 11.889 L = .0357 Feb = 11.132 Ptc/Pcw = 1.230 Wc = 2.03 T = 66. B = 29.81

Run 37-4 C2 I1 S1 B1 Eng 2 $\alpha=20^\circ$ $\beta=0^\circ$ $m/m^*=.711$ 0.807, 0815

Pt/Pto 131-144
.999 .998 .996 .993 .989 .986 .998 .998 .996 .994 .989 .985 .973 .978

Cp 330-344
.014 -.367 -.525 -.589 -.474 .220 -.402 -.600 -.684 -.749 -.688 -.624 -1.315 -.580 -1.075

Pt/Pto 101-130
.966 .925 .955 .951 1.000 1.000 .949 .967 .947
1.000 1.000 .969 .977 .937 1.000 1.000 .989
.993 .946 1.000 1.000 1.000 1.000 .994 1.000 1.000

Ptc = 14.618 Ptc/Pto = .982 K = .0767

Cp 310-320
.792 -.697 .580 .340 .199 -.040 -.101 -.083 -.085 -.047 -.039

Cp 321-329
-.247 .809 .926 .767 .652 .366 .045 -.095 -.233

Ps 301-309 14.432 13.025 13.969 14.653 11.173 11.849 12.000 12.045 12.108

Ps 201-206 11.877 11.982 12.031 11.935 11.488 11.550

Ps 207-212 10.989 11.089 11.158 11.104 10.985 10.876

Ps 213-224 13.664 11.392 10.668 10.026 9.959 10.880 11.093 11.177 11.184 12.357 ~~12.415~~ 12.332

Ps 225-236 12.438 10.757 n.g. n.g. 9.632 10.143 10.448 10.667 11.667 12.180 12.511

Ps 237-245 13.964 13.966 13.967 13.970 13.966 12.470 11.975 11.516 11.489

Pcv = 11.811 L = .0372 Pcb = 11.033 Ptc/Pcv = 1.238 Wc = 2.05 T = 66. B = 29.81

LOW SPEED TEST DATA

In the following Table, it should be noted that:

- *Tubes 330-334 should read 330A-334A.*
- *Tubes read horizontally and consecutively.*
- *Pressure data struck out by lining indicates defective reading due to leakage, line plug, etc.*

Calculated Data for Single-Entry Operation at a q of 33.3
(a) Configuration C1 I1 C1 E1

Run 25-20 C1 I1 S1 B1 Eng 1 $\alpha = 0^\circ$ $\beta = 0^\circ$ $m/m^* = 630$ 0.661

Pt/Pto 131-144
1.000 1.000 .999 .996 .992 .990 1.000 1.000 1.000 .998 .993 .989 .990 .985

Cp 330-344
+.185 -.251 -.502 -.378 -.165 .476 -.127 -.466 -.617 -.521 -.395 -.101 -.024 -.133 -.201

Pt/Pto 101-130
.954 .995 .990 .992 .857 .901 .971 1.000 1.000 .999
.870 .911 .993 1.000 1.000 .894 .921 1.000 1.000
1.000 1.000 .931 .946 1.000 1.000 1.000 .985 .988

Ptc = 14.479 Ptc/Pto = .970 K = .1474

Cp 310-320
.898 -.635 .223 .041 -.058 -.233 -.200 -.169 -.164 -.126 -.086

Cp 321-329
.994 .701 .320 .139 .080 -.055 -.117 -.107 -.147

Ps 301-309 13.583 12.940 13.374 13.459 13.421 12.743 11.901 12.063 12.567

Ps 201-206 12.587 12.638 12.776 12.665 12.468 12.560

Ps 207-212 11.962 12.019 12.080 12.053 11.994 11.941

Ps 213-224 14.739 13.750 13.359 12.983 12.787 12.892 12.820 12.649 12.411 12.165 12.781 12.839

Ps 225-236 14.624 13.921 12.935 12.494 12.097 12.239 12.258 12.178 12.042 12.066 12.607 13.176

Ps 237-245 14.403 14.398 14.404 14.405 14.404 11.544 11.921 12.282 12.497

Pcv = 12.616 L = .0213 Pcb = 12.008 Ptc/Pcv = 1.148 Wc = 1.72 T = 74. B = 29.91

Run 17-1 C1 I1 S1 B1 Eng 1 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^*=$ ~~5.77~~ 0.732

Pt/Pto 131-144

1.000 1.000 .999 .996 .992 .990 1.000 1.000 1.000 .998 .993 .989 .989 .985

Cp 330-344

~~173~~ -.240 -.510 -.379 -.169 .476 -.131 -.467 -.614 -.520 -.401 -.116 -.071 -.146 -.255

Pt/Pto 101-130

.943 .995 .987 .990 .829 .882 .965 1.000 1.000 .999
.846 .894 .992 1.000 1.000 .876 .906 1.000 1.000 1.000
1.000 1.000 .920 .937 1.000 1.000 1.000 .983 .987

Ptc = 14.335 Ptc/Pto = .964 K = .1775

Cp 310-320

.952 -.546 .284 .103 -.006 -.197 -.187 -.156 -.157 -.116 -.077

Cp 321-329

.995 .760 .384 .199 .133 -.018 -.094 -.089 -.132

Ps 301-309 13.291 12.464 13.003 13.149 13.107 12.285 11.260 11.472 12.072

Ps 201-206 12.115 12.140 12.266 12.182 11.945 12.072

Ps 207-212 11.346 11.410 11.481 11.443 11.373 11.315

Ps 213-224 14.594 13.449 13.019 12.589 12.364 12.487 12.394 12.188 11.886 11.601 ~~11.802~~ 12.400

Ps 225-236 14.446 13.621 12.509 11.995 11.535 11.702 11.728 11.634 11.445 11.458 12.121 12.798

Ps 237-245 14.341 14.339 14.346 14.347 14.344 10.890 11.322 11.734 11.982

Pcv = 12.120 L = .0223 Pcb = 11.395 Ptc/Pcv = 1.183 Wc = 1.85 T = 66. B = 29.78

Run 17-2 C1 IL S1 B1 Eng 1 $\alpha = -4^\circ$ $\beta = 0^\circ$ m/m² = ~~677~~ 0.733

| | | | | | | | | | | | | | | |
|----------------|-----------|--------|--------|--------|-----------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| Pt/Pto 131-144 | 1.000 | 1.000 | 1.000 | .998 | .994 | .991 | 1.000 | 1.000 | 1.000 | .999 | .995 | .992 | .990 | .985 |
| Cp 330-344 | -173 | -.190 | -.461 | -.348 | -.167 | .523 | -.044 | -.375 | -.533 | -.465 | -.360 | -.103 | -.072 | -.135 |
| | | | | | | | | | | | | | | -.269 |
| Pt/Pto 101-130 | .938 | .995 | .988 | .991 | .830 | .881 | .956 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| | .848 | .892 | .987 | 1.000 | 1.000 | 1.000 | .877 | .906 | .999 | 1.000 | | | | |
| | 1.000 | 1.000 | .920 | .936 | 1.000 | 1.000 | 1.000 | 1.000 | .983 | .986 | | | | |
| Ptc = 14.326 | Ptc/Pto = | .964 | K = | .1764 | | | | | | | | | | |
| Cp 310-320 | .972 | -.541 | .388 | .203 | .082 | -.121 | -.149 | -.129 | -.140 | -.108 | -.079 | | | |
| Cp 321-329 | .977 | .685 | .270 | .111 | .051 | -.084 | -.138 | -.117 | -.138 | | | | | |
| Ps 301-309 | 13.423 | 12.591 | 13.101 | 13.186 | 13.120 | 12.287 | 11.255 | 11.475 | 12.070 | | | | | |
| Ps 201-206 | 12.110 | 12.134 | 12.259 | 12.181 | 11.939 | 12.067 | | | | | | | | |
| Ps 207-212 | 11.337 | 11.404 | 11.473 | 11.439 | 11.368 | 11.311 | | | | | | | | |
| Ps 213-224 | 14.508 | 13.338 | 12.926 | 12.530 | 12.328 | 12.464 | 12.384 | 12.181 | 11.884 | 11.591 | 11.400 | 12.390 | | |
| Ps 225-236 | 14.499 | 13.718 | 12.596 | 12.067 | 11.583 | 11.738 | 11.750 | 11.639 | 11.455 | 11.456 | 12.119 | 12.799 | | |
| Ps 237-245 | 14.347 | 14.345 | 14.352 | 14.352 | 14.349 | 10.887 | 11.323 | 11.733 | 11.978 | | | | | |
| Pev = 12.115 | L = | .0223 | Peb = | 11.389 | Ptc/Pev = | 1.183 | Wc = | 1.85 | T = | 66. | B = | 29.78 | | |

Run 17-3 C1 I1 S1 B1 Eng 1 $\alpha = -10^\circ$ $\beta = 0^\circ$ $m/m^* = 677$ 0.731

Pt/Pto 131-144

1.000 1.000 1.000 .999 .996 .993 1.000 1.000 1.000 1.000 .998 .994 .991 .985

Cp 330-344

.162 -.113 -.372 -.302 -.160 .592 .097 -.220 -.398 -.361 -.280 -.067 -.051 -.105 -.260

Pt/Pto 101-130

.940 .996 .989 .993 .829 .878 .960 1.000 1.000 1.000
.846 .888 .985 1.000 1.000 1.000 .876 .900 .999 1.000
1.000 1.000 .921 .933 1.000 1.000 1.000 .983 .986

Ptc = 14.326 Ptc/Pto = .963 K = .1772

Cp 310-320

.975 -.548 .527 .351 .223 -.001 -.084 -.079 -.105 -.090 -.074

Cp 321-329

.870 .540 .122 -.038 -.089 -.203 -.232 -.191 -.187

Ps 301-309 13.924 12.842 13.233 13.253 13.170 12.317 11.275 11.481 12.077

Ps 201-206 12.126 12.155 12.277 12.201 11.959 12.091

Ps 207-212 11.361 11.429 11.502 11.461 11.388 11.337

Ps 213-224 14.364 13.179 12.807 12.466 12.305 12.458 12.395 12.201 11.915 11.591 12.060 12.406

Ps 225-236 14.568 13.863 12.747 12.201 11.690 11.820 11.819 11.686 11.502 11.481 12.133 12.815

Ps 237-245 14.363 14.358 14.365 14.366 14.363 10.902 11.320 11.730 11.963

Pcv = 12.135 L = .0222 Pcb = 11.413 Ptc/Pcw = 1.181 Wc = 1.84 T = 66. B = 29.79

Run 17-4 C1 I1 S1 B1 Eng 1 $\alpha=4^\circ$ $\beta=0^\circ$ $m/m^*=657$ 0.731

Pt/Pto 131-144
1.000 .999 .997 .994 .989 .987 1.000 1.000 .998 .995 .990 .986 .988 .985

Cp 330-344
.172 -.285 -.551 -.390 -.164 .441 -.207 -.546 -.671 -.555 -.417 -.113 -.060 -.142 -.231

Pt/Pto 101-130
.951 .996 .987 .982 .831 .884 .982 1.000 1.000 .997
.847 .895 .997 1.000 1.000 .999 .876 .905 1.000 1.000
1.000 1.000 .922 .936 1.000 1.000 1.000 .985 .987

Ptc = 14.356 Ptc/Pto = .965 K = .1752

Cp 310-320
.892 -.544 .191 .009 -.090 -.257 -.207 -.170 -.158 -.113 -.065

Cp 321-329
1.010 .840 .483 .289 .214 .047 -.057 -.075 -.126

Ps 301-309 13.334 12.375 12.937 13.133 13.116 12.317 11.309 11.516 12.102

Ps 201-206 12.138 12.173 12.295 12.210 11.986 12.106

Ps 207-212 11.387 11.449 11.518 11.481 11.409 11.359

Ps 213-224 14.669 13.563 13.118 12.662 12.415 12.524 12.425 12.217 11.917 11.646 12.142 12.439

Ps 225-236 14.390 13.537 12.434 11.944 11.511 11.694 11.736 11.653 11.465 11.495 12.151 12.818

Ps 237-245 14.347 14.344 14.350 14.350 14.349 10.938 11.361 11.767 12.012

Pev = 12.151 L = .0215 Pev = 11.434 Ptc/Pev = 1.181 Wc = 1.85 T = 66. B = 29.79

Run 17-5 C1 I1 S1 B1 Eng 1 $\alpha=10^\circ$ $\beta=0^\circ$ $m/m^* = .577$ 0.732

| | | | | | | | | | | | | | | |
|----------------|-----------------------------|--------------|-----------------|-----------|---------|-----------|--------|--------|--------|--------|--------|--------|-------|-------|
| Pt/Pto 131-144 | .998 | .995 | .991 | .987 | .982 | .981 | .998 | .995 | .991 | .987 | .982 | .979 | .985 | .984 |
| Cp 330-344 | .161 | -.352 | -.603 | -.408 | -.157 | .382 | -.308 | -.634 | -.732 | -.582 | -.423 | -.093 | -.026 | -.124 |
| | | | | | | | | | | | | | | -.188 |
| Pt/Pto 101-130 | .999 | .997 | .986 | .939 | .830 | .876 | 1.000 | 1.000 | 1.000 | 1.000 | | | | |
| | .847 | .893 | 1.000 | 1.000 | 1.000 | .993 | .878 | .906 | 1.000 | 1.000 | | | | |
| | 1.000 | .996 | .925 | .937 | 1.000 | 1.000 | 1.000 | 1.000 | .986 | .988 | | | | |
| Ptc = 14.354 | Ptc/Pto = .965 K = .1768 | | | | | | | | | | | | | |
| Cp 310-320 | .802 | -.566 | .057 | -.098 | -.184 | -.330 | -.223 | -.177 | -.161 | -.098 | -.045 | | | |
| Cp 321-329 | .995 | .921 | .601 | .406 | .317 | .123 | -.027 | -.082 | -.167 | | | | | |
| Ps 301-309 | 13.162 | 12.107 | 12.735 | 13.080 | 13.133 | 12.339 | 11.316 | 11.503 | 12.084 | | | | | |
| Ps 201-206 | 12.127 | 12.172 | 12.291 | 12.176 | 11.979 | 12.100 | | | | | | | | |
| Ps 207-212 | 11.379 | 11.445 | 11.512 | 11.466 | 11.384 | 11.346 | | | | | | | | |
| Ps 213-224 | 14.738 | 13.678 | 13.211 | 12.713 | 12.435 | 12.525 | 12.417 | 12.204 | 11.901 | 11.636 | 12.171 | 12.482 | | |
| Ps 225-236 | 14.266 | 13.345 | 12.267 | 11.807 | 11.413 | 11.619 | 11.704 | 11.616 | 11.436 | 11.484 | 12.135 | 12.798 | | |
| Ps 237-245 | 14.347 | 14.343 | 14.349 | 14.349 | 14.347 | 10.916 | 11.327 | 11.745 | 11.999 | | | | | |
| Pcv = 12.141 | L = .0217 | Pcb = 11.422 | Ptc/Pcv = 1.182 | Wc = 1.85 | T = 66. | B = 29.79 | | | | | | | | |

Run 17-6 C1 I1 S1 B1 Eng 1 $\alpha=0^\circ$ $\beta=-4^\circ$ m/m²=~~677~~ 0.732

Pt/Pto 131-144

1.000 1.000 1.000 .997 .993 .991 1.000 1.000 1.000 .999 .995 .991 .990 .985

Cp 330-344

~~.866~~ -.159 -.459 -.350 -.148 .468 -.139 -.469 -.610 -.521 -.396 -.119 -.058 -.133 -.243

Pt/Pto 101-130

.961 .991 .979 .987 .841 .889 .980 1.000 1.000 .996
.862 .902 .996 1.000 1.000 .999 .893 .915 1.000 1.000
1.000 1.000 .934 .944 1.000 1.000 1.000 .987 .989

Ptc = 14.397 Ptc/Pto = .968 K = .1642

Cp 310-320

.966 ~~-.555~~ .315 .131 .020 -.180 -.192 -.170 -.159 -.123 -.087

Cp 321-329

.983 .931 .634 .422 .328 .136 .002 -.026 -.094

Ps 301-309 13.121 12.149 12.759 13.049 13.080 12.317 11.377 11.625 12.179

Ps 201-206 12.181 12.238 12.337 12.256 12.018 12.137

Ps 207-212 11.439 11.502 11.566 11.534 11.469 11.399

Ps 213-224 14.560 13.372 12.937 12.510 12.299 12.444 12.373 12.184 11.896 11.751 ~~12.267~~ 12.495

Ps 225-236 14.196 13.227 12.105 11.647 11.286 11.522 11.693 11.574 11.418 11.561 12.210 12.844

Ps 237-245 14.357 14.352 14.353 14.360 14.357 11.042 11.487 11.882 12.087

Pcv = 12.195 L = .0221 Pcb = 11.485 Ptc/Pcv = 1.181 Wc = 1.85 T = 66. B = 29.79

Run 17-7 C1 IL S1 B1 Eng 1 $\alpha=0^\circ$ $\beta=-10^\circ$ m/m*=~~5.71~~ 0.733

Pt/Pto 131-144

1.000 1.000 1.000 .998 .994 .991 1.000 1.000 1.000 .999 .995 .992 .990 .984

Cp 330-344

~~.752~~ -.094 -.435 -.369 -.178 .405 -.181 -.493 -.627 -.541 -.419 -.153 -.072 -.157 -.284

Pt/Pto 101-130

.388 .987 .959 .970 .861 .901 1.000 1.000 .991 .986
.884 .918 1.000 1.000 .993 .913 .930 1.000 1.000
1.000 1.000 .948 .956 1.000 1.000 1.000 .992 .993

Ptc = 14.458 Ptc/Pto = .972 K = .1435

Cp 310-320

.926 ~~-.553~~ .320 .125 .006 -.206 -.253 -.245 -.233 -.196 -.164

Cp 321-329

.663 1.018 .860 .685 .575 .339 .125 .048 -.048

Ps 301-309 12.574 11.765 12.363 12.847 13.014 12.372 11.572 11.852 12.328

Ps 201-206 12.300 12.365 12.441 12.365 12.132 12.237

Ps 207-212 11.594 11.649 11.706 11.684 11.627 11.549

Ps 213-224 14.487 13.247 12.811 12.393 12.212 12.389 12.356 12.194 11.938 11.992 ~~12.409~~ 12.633

Ps 225-236 13.656 12.544 11.477 11.131 10.929 11.200 11.632 11.532 11.431 11.742 12.372 12.900

Ps 237-245 14.366 14.363 14.369 14.368 11.310 11.775 12.122 12.247

Pev = 12.307 L = .0214 Pcb = 11.635 Ptc/Pev = 1.175 Wc = 1.84 T = 66. B = 29.79

Run 17-8 C1 I1 S1 H1 Eng 1 $\alpha=C^\circ$ $\beta=4^\circ$ m/m*~~0.732~~ 0.732

| | | | | | | | | | | | | | | |
|----------------|-----------|--------|--------|--------|-----------|--------|--------|--------|--------|--------|--------|--------|-------|-------------|
| Pt/Pto 131-144 | 1.000 | 1.000 | .998 | .994 | .988 | .986 | 1.000 | 1.000 | .999 | .996 | .990 | .985 | .986 | .984 |
| Cp 330-344 | -067 | -0338 | -0574 | -0416 | -0210 | .474 | -0136 | -0473 | -0619 | -0529 | -0403 | -0120 | -0086 | -0168 -0287 |
| Pt/Pto 101-130 | .967 | .996 | .990 | .965 | .814 | .866 | .994 | 1.000 | 1.000 | .992 | | | | |
| | .828 | .877 | .999 | 1.000 | 1.000 | 1.000 | .859 | .888 | 1.000 | 1.000 | | | | |
| | 1.000 | 1.000 | .908 | .922 | 1.000 | 1.000 | 1.000 | 1.000 | .980 | .982 | | | | |
| Ptc = 14.288 | Ptc/Pto = | .961 | K = | .1937 | | | | | | | | | | |
| Cp 310-320 | .929 | -0552 | .245 | .064 | -0044 | -0226 | -0195 | -0161 | -0176 | -0131 | -0093 | | | |
| Cp 321-329 | .907 | .517 | .105 | -0031 | -0072 | -0173 | -0188 | -0151 | -0154 | | | | | |
| Ps 301-309 | 13.771 | 12.733 | 13.175 | 13.212 | 13.138 | 12.234 | 11.093 | 11.275 | 11.907 | | | | | |
| Ps 201-206 | 11.976 | 12.021 | 12.150 | 12.049 | 11.813 | 11.960 | | | | | | | | |
| Ps 207-212 | 11.189 | 11.261 | 11.334 | 11.285 | 11.203 | 11.193 | | | | | | | | |
| Ps 213-224 | 14.609 | 13.488 | 13.058 | 12.623 | 12.376 | 12.482 | 12.368 | 12.141 | 11.815 | 11.413 | 12.153 | 12.289 | | |
| Ps 225-236 | 14.609 | 13.956 | 12.850 | 12.290 | 11.740 | 11.831 | 11.805 | 11.615 | 11.413 | 11.304 | 11.976 | 12.710 | | |
| Ps 237-245 | 14.330 | 14.325 | 14.332 | 14.334 | 14.331 | 10.682 | 11.084 | 11.508 | 11.804 | | | | | |
| Pew = 11.996 | L = | .0232 | Feb = | 11.244 | Ptc/Pew = | 1.191 | We = | 1.87 | T = | 67. | B = | 29.79 | | |

Run 17-9 C1 I1 S1 B1 Eng 1 $\alpha=0^\circ$ $\beta=10^\circ$ $m/m^* = \frac{1}{2}$ 0.730

Pt/Pto 131-144

.998 .997 .994 .988 .980 .978 .997 .997 .993 .989 .981 .977 .983 .983

Cp 330-344

-.134 -.516 -.701 -.512 -.319 .424 -.154 -.490 -.632 -.541 -.423 -.163 -.233 -.233 -.376

Pt/Pto 101-130

.996 .997 .997 .911 .801 .847 .999 1.000 1.000 .946
.814 .858 1.000 1.000 1.000 .980 .843 .871 1.000 1.000
1.000 .999 .895 .906 1.000 1.000 1.000 .975 .976

Ptc = 11.181 Ptc/Pto = .954 K = .2085

Cp 310-320

.840 -.543 .184 -.019 -.130 -.302 -.244 -.204 -.251 -.199 -.166

Cp 321-329

.508 .031 -.319 -.395 -.382 -.389 -.318 -.236 -.191

Ps 301-309 14.252 13.043 13.270 13.281 13.180 12.198 10.913 11.072 11.723

Ps 201-206 11.830 11.887 12.009 11.878 11.669 11.824

Ps 207-212 11.006 11.089 11.171 11.103 11.013 11.069

Ps 213-224 14.603 13.526 13.101 12.663 12.398 12.486 12.352 12.106 11.757 11.184 11.961 12.166

Ps 225-236 14.693 14.326 13.294 12.690 12.040 12.015 11.928 11.666 11.412 11.032 11.852 12.635

Ps 237-245 14.305 14.300 14.308 14.309 14.308 14.461 10.839 11.277 11.614

Pcw = 11.849 L = .0239 Pcb = 11.075 Ptc/Pcw = 1.197 Wc = 1.87 T = 67. B = 29.79

Run 17-10 C1 I1 S1 E1 Eng 1 $\alpha=4^\circ$ $\beta=4^\circ$ $m/m^* = 577$ 0.731

Pt/Pto 131-144
1.000 .999 .995 .990 .984 .982 1.000 .999 .996 .992 .985 .981 .985 .984

Cp 330-344
-.082 -.371 -.604 -.419 -.189 .432 -.212 -.551 -.679 -.561 -.423 -.121 -.066 -.160 -.257

Pt/Pto 101-130
.999 .996 .990 .933 .817 .865 1.001 1.001 1.001 .975
.832 .879 1.001 1.001 1.001 .999 .863 .890 1.001 1.001
1.001 1.001 .913 .924 1.001 1.001 1.001 .983 .985

Ptc = 14.302 Ptc/Pto = .962 K = .1913

Cp 310-320
.911 -.510 .188 -.013 .118 -.280 -.208 -.166 -.170 -.117 -.069

Cp 321-329
.999 .650 .253 .073 .022 -.095 -.136 -.120 -.141

Ps 301-309 13.475 12.573 13.085 13.200 13.140 12.263 11.123 11.304 11.929

Ps 201-206 11.991 12.038 12.165 12.045 11.835 11.975

Ps 207-212 11.206 11.278 11.350 11.299 11.210 11.203

Ps 213-224 14.676 13.588 13.140 12.673 12.404 12.498 12.378 12.150 11.824 11.424 ~~12.017~~ 12.337

Ps 225-236 14.573 13.873 12.765 12.228 11.693 11.803 11.785 11.612 11.415 11.321 11.990 12.716

Ps 237-245 14.329 14.326 14.332 14.334 14.331 10.699 11.097 11.529 11.825

Rev = 12.008 L = .0231 Feb = 11.258 Ptc/Rev = 1.191 Wc = 1.87 T = 68. B = 29.79

Run 17-11 C1 I1 S1 B1 Eng 1 $\alpha=4^\circ$ $\beta=-4^\circ$ $m/m^* = \frac{1}{1.17}$ 0.733

Pt/Pto 131-144

1.000 1.000 .998 .995 .991 .989 1.000 1.000 .999 .997 .993 .989 .989 .985

Cp 330-344

~~0.46~~ -.229 -.523 -.389 -.167 .429 -.222 -.553 -.680 -.564 -.425 -.121 -.056 -.143 -.237

Pt/Pto 101-130

.957 .991 .977 .982 .841 .871 .982 1.000 1.000 .994
.861 .905 .997 1.000 1.000 .996 .891 .918 1.000 1.000
1.000 1.000 .932 .947 1.000 1.000 1.000 .987 .990

Ptc = 14.395 Ptc/Pto = .968 K = .1644

Cp 310-320

.925 ~~-.552~~ .215 .036 -.068 -.251 -.226 -.200 -.187 -.138 -.093

Cp 321-329

.960 .991 .715 .491 .391 .178 .019 -.034 -.118

Ps 301-309 12.989 12.004 12.574 12.953 13.056 12.316 11.379 11.632 12.180

Ps 201-206 12.178 12.235 12.335 12.250 12.015 12.130

Ps 207-212 11.434 11.496 11.560 11.529 11.468 11.395

Ps 213-224 14.628 13.466 13.014 12.557 12.324 12.456 12.376 12.182 11.892 11.767 ~~12.466~~ 12.490

Ps 225-236 14.095 13.078 11.986 11.536 11.213 11.444 11.667 11.546 11.400 11.559 12.212 12.836

Ps 237-245 14.356 14.353 14.357 14.359 14.357 11.051 11.501 11.894 12.089

Pcv = 12.190 L = .0222 Pcb = 11.480 Ptc/Pcv = 1.181 Wc = 1.85 T = 68. B = 29.79

Run 17-12 C1 IL S1 B1 Eng 1 $\alpha = -4^\circ$ $\beta = -4^\circ$ $m/m^* = 0.733$

Pt/Pto 131-144

1.000 1.000 1.000 .998 .995 .992 1.000 1.000 1.000 1.000 .996 .993 .991 .985

Cp 330-344

~~1.000~~ .096 -.392 -.309 -.131 .509 -.053 -.379 -.534 -.470 -.359 -.104 -.053 -.118 -.244

Pt/Pto 101-130

.963 .993 .981 .990 .840 .887 .984 1.000 1.000 1.000 .998
.860 .899 .997 1.000 1.000 .999 .891 .910 1.000 1.000
1.000 1.000 .934 .941 1.000 1.000 1.000 .987 .989

Ptc = 14.396 Ptc/Pto = .968 K = .1653

Cp 310-320

.974 ~~1.000~~ .405 .229 .108 -.105 -.154 -.139 -.135 -.112 -.080

Cp 321-329

.969 .874 .548 .347 .261 .077 -.025 -.037 -.095

Ps 301-309 13.113 12.304 12.891 13.106 13.090 12.314 11.368 11.612 12.167

Ps 201-206 12.179 12.232 12.330 12.252 12.013 12.135

Ps 207-212 11.434 11.495 11.561 11.529 11.464 11.398

Ps 213-224 14.479 13.267 12.852 12.456 12.268 12.425 12.362 12.178 11.893 11.736 -12.870- 12.486

Ps 225-236 14.273 13.330 12.209 11.731 11.341 11.561 11.698 11.594 11.431 11.554 12.204 12.842

Ps 237-245 14.359 14.357 14.362 14.364 14.361 11.028 11.470 11.862 12.075

Pcw = 12.190 L = .0220 Pcb = 11.480 Ptc/Pcw = 1.181 Wc = 1.85 T = 68. B = 29.79

Run 17-13 C1 I1 S1 B1 Eng 1 $\alpha = 4^\circ$ $\beta = 4^\circ$ $m/m^* = 6.71$ 0.731

Pt/Pto 131-144

.999 1.000 .999 .997 .991 .989 1.000 1.000 .999 .998 .993 .989 .987 .984

Cp 330-344

~~.998~~ -.302 -.537 -.407 -.227 .513 -.045 -.379 -.539 -.469 -.366 -.110 -.089 -.163 -.301

Pt/Pto 101-130

.939 .995 .991 .986 .817 .872 .958 1.000 1.000 .998
.831 .882 .987 1.000 1.000 .860 .860 1.000 1.000
1.000 1.000 .906 .925 1.000 1.000 1.000 .978 .983

Ptc = 14.275 Ptc/Pto = .960 K = .1904

Cp 310-320

.932 ~~-.553~~ .331 .149 .028 -.166 -.172 -.147 -.175 -.135 -.107

Cp 321-329

.810 .379 -.022 -.145 -.174 -.255 -.253 -.203 -.195

Ps 301-309 13.932 12.901 13.249 13.260 13.171 12.271 11.140 11.326 11.955

Ps 201-206 12.030 12.061 12.191 12.103 11.868 12.002

Ps 207-212 11.243 11.314 11.387 11.345 11.273 11.245

Ps 213-224 14.543 13.413 13.007 12.608 12.392 12.508 12.409 12.186 11.877 11.443 ~~-12.072~~ 12.316

Ps 225-236 14.644 14.053 12.962 12.398 11.835 11.905 11.872 11.676 11.474 11.361 12.028 12.747

Ps 237-245 14.337 14.333 14.338 14.341 14.338 10.737 11.148 11.573 11.861

Pev = 12.043 L = .0226 Peb = 11.301 Ptc/Pev = 1.185 Wc = 1.85 T = 67. B = 29.79

Run 23-1 C1 I1 S1 B1 Eng 1 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^* = .627$ 0.732

| |
|--------|
| Pt/Pto |
| 1.000 |
| .999 |
| .996 |
| .992 |
| .990 |
| 1.000 |
| 1.000 |
| .998 |
| .993 |
| .989 |
| .985 |

| | | | | | | | | | | | | | |
|-----------------|---------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Cp | 330-344 | | | | | | | | | | | | |
| -176 | -.254 | -.511 | -.385 | .474 | -.134 | -.475 | -.624 | -.532 | -.407 | -.126 | -.081 | -.156 | -.265 |

| | | | | | | | | |
|--------|---------|-------|-------|-------|-------|-------|-------|-------|
| Pt/Pto | 101-130 | | | | | | | |
| .942 | .987 | .990 | .830 | .881 | .963 | 1.000 | 1.000 | .999 |
| .847 | .991 | 1.000 | 1.000 | 1.000 | .876 | .906 | 1.000 | 1.000 |
| 1.000 | .920 | .937 | 1.000 | 1.000 | 1.000 | .999 | .983 | .987 |

$$P_{TC} = 14.430 \quad P_{TC}/P_{TO} = .964 \quad K = .1761$$
[illegible]

CP 321-329

| | | | | | | | | | | |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| P ₀ | 301-309 | 13.389 | 12.544 | 13.080 | 13.233 | 13.195 | 12.377 | 11.352 | 11.574 | 12.177 |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

P# 201-206 12.186 12.243 12.414 12.284 12.028 12.139

Pa 207-212 11.425 11.498 11.575 11.535 11.460 11.398

| | | | | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Pa | 213-224 | 14.684 | 13.540 | 13.108 | 12.685 | 12.453 | 12.576 | 12.487 | 12.273 | 11.978 | 11.697 | -12.399 | 12.493 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|

| | | | | | | | | | | | | | |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| P ₁ | 225-236 | 14.536 | 13.714 | 12.592 | 12.080 | 11.620 | 11.795 | 11.815 | 11.718 | 1-.535 | 11.540 | 12.217 | 12.895 |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | 14.396 | 14.390 | 14.400 | 14.402 | 14.400 | 10.982 | 11.424 | 11.836 | 12.072 |
|-----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| P ₂₃ | 237-245 | | | | | | | | |

Pcw = 12.216 L = .0267 Pcb = 11.482 Ptc/Pcw = 1.181 Wc = 1.81 T = 93. B = 29.99

Run 23-22 C1 I1 S1 B1 Eng 1 $\alpha=0^\circ$ $\beta=C^\circ$ $m/m^* = \frac{1}{2} \frac{1}{2}$ 0.731

Pt/Pto 131-144

1.000 1.000 .999 .996 .992 .989 1.000 1.000 1.000 .998 .993 .988 .989 .985

Cp 330-344

.180⁻ -.254 -.510 -.388 -.187 .474 -.130 -.474 -.625 -.534 -.413 -.139 -.112 -.169 -.299

Pt/Pto 101-130

.934 .996 .986 .990 .813 .870 .958 1.000 1.000 .999
.832 .885 .990 1.000 1.000 1.000 .864 .900 1.000 1.000
1.000 1.000 .912 .933 1.000 1.000 1.000 .982 .986

Ptc = 14.340 Ptc/Pto = .961 K = .1941

Cp 310-320

.959 -.600 .324 .131 .012 -.188 -.189 -.163 -.155 -.123 -.087

Cp 321-329

.999 .793 .407 .216 .141 -.013 -.097 -.094 -.142

Ps 301-309 13.224 12.283 12.870 13.048 13.012 12.095 10.932 11.199 11.868

Ps 201-206 11.865 11.942 12.128 11.979 11.692 11.812

Ps 207-212 11.031 11.117 11.198 11.150 11.062 11.003

Ps 213-224 14.580 13.357 12.896 12.445 12.197 12.328 12.223 11.989 11.650 11.349 12.092 12.204

Ps 225-236 14.431 13.545 12.348 11.796 11.286 11.473 11.497 11.394 11.160 11.162 11.905 12.654

Ps 237-245 14.331 14.325 14.333 14.334 14.332 14.572 11.049 11.487 11.747

Pcv = 11.903 L = .0304 Pcb = 11.093 Ptc/Fcv = 1.205 Wc = 1.91 T = 74. B = 29.90

Rut 10-1 Cl II S1 B1 Eng 1 0-0° $\beta=0^\circ$ m/ π^* = ~~0.808~~ 0.808

Pt/Pto 131-144

1.000 1.000 .999 .996 .992 .989 1.000 1.000 1.000 .998 .988 .988 .985

Cp 330-344

.475 - .241 -.515 -.387 -.193 .430 -.135 -.475 -.623 -.535 -.416 -.159 -.172 -.108 -.356

Pt/Ptc 101-130

.983 .996 .982 .988 .769 .840 .955 1.001 1.000 .999
.794 .662 .990 1.000 1.000 .935 .934 1.000 1.000
1.000 1.000 .998 .924 1.000 1.000 1.001 1.000 .980 .987

Ptc = 14.181 Ptc/Pto = .954 K = .2431

Cp 310-320

1.012 -.543-. .442 .201 .072 -.144 -.169 -.148 -.145 -.112 -.074

Cp 321-329

1.029 .385 .508 .286 .199 .029 -.066 -.072 -.124

Ps 301-309 12.931 11.664 12.366 12.635 12.625 11.447 12.684 14.291 11.140

Ps 201-206 11.123 11.205 11.379 11.254 10.882 11.054

Ps 207-212 14.073 14.179 14.281 14.204 14.075 14.047

Ps 213-224 14.390 12.969 12.465 11.930 11.627 11.782 11.638 11.325 10.871 10.490 ~~11.356~~ 11.548

Ps 225-236 14.195 13.175 11.799 11.142 10.517 10.740 10.768 10.580 10.257 10.147 11.158 12.097

Ps 237-245 14.280 14.273 14.284 14.285 14.282 13.560 14.111 14.626 10.948

Pcv = 11.150 L = .0350 Pcb = 14.143 Pcc/Fcv = 1.272 Wc = 2.07 T = 62. B = 29.79

Run 18-2-2 01 10 51 21 Aug 1 04-4° 3-0' W/m 0.107

10/Pto 131-144
 1.000 1.000 1.000 .999 .994 .991 1.000 1.000 1.000 .999 .995 .991 .989 .985

CP 330-344
 -.174 -.196 -.466 -.360 -.180 .521 -.048 -.385 -.546 -.481 -.379 -.147 -.171 -.177 -.377

Pt/Pto 101-130
 .922 .996 .983 .990 .769 .840 .947 1.000 1.000 .999
 .984 1.000 1.000 .836 .884 1.000 1.000 1.000
 .793 .862 .835 .926 1.000 1.000 1.000 .979 .987
 1.000 1.000

Ftc = 14.175 ltc/Pto = .953 K = .2433

CP 310-320
 1.010 ~~-.540~~ .522 .288 .154 -.075 -.130 -.121 -.133 -.109 -.080

CP 321-329
 1.010 .814 .409 .191 .115 -.042 -.118 -.102 -.131

Ps 301-309 12.297 11.798 12.489 12.699 12.642 11.467 13.902 14.305 11.153

Ps 201-206 11.143 11.218 11.393 11.270 10.894 11.069

Ps 207-212 14.085 14.196 14.299 14.221 14.095 14.052

Ps 213-224 14.296 12.861 12.379 11.304 11.607 11.776 11.642 11.336 10.380 10.501 ~~11.469~~ 11.555

Ps 225-235 14.275 13.225 11.920 11.248 10.596 10.800 10.806 10.610 10.291 10.171 11.175 12.113

Ps 237-245 14.286 14.283 14.291 14.270 14.207 13.580 14.129 14.643 10.973

lcr = 11.155 L = .0352 Fto = 14.159 Fto/Pto = 1.270 Wc = 2.07 T = 04. S = 20.79

Run 18-3 C1 I1 S1 B1 244; 1 $\alpha=10^\circ$ $\beta=0^\circ$ m/m ~~1~~ 0.307

Ft/Pto 131-144

1.000 1.000 1.000 .999 .996 .993 1.000 1.000 1.000 .998 .993 .990 .985

Cp 330-344

~~1.000~~ .110 -.377 -.310 -.179 .594 .093 -.227 -.404 -.373 -.299 -.109 -.151 -.144 -.375

Ft/Pto 101-130

.928 .996 .985 .992 .763 .831 .950 1.000 1.000 1.000 1.000
 .789 .850 .934 1.000 1.000 .835 .870 .989 1.000
 1.000 1.000 .898 .915 1.000 1.000 1.000 .980 .984

Pto = 14.157 Fto/Fto = .952 K = .2493

Cp 310-320

.957 ~~1.000~~ .600 .434 .295 .040 -.067 -.065 -.035 -.071

Cp 321-329

.960 .691 .271 .051 -.017 -.153 -.204 -.174 -.175

Ps 301-309 13.138 12.005 12.674 12.779 12.674 11.464 13.051 14.236 11.097

Ps 201-206 11.110 11.194 11.362 11.242 10.855 11.048

Ps 207-212 14.050 14.161 14.265 14.183 14.045 14.040

Ps 213-224 14.097 12.647 12.210 11.773 11.541 11.733 11.615 11.318 10.875 10.418 ~~11.637~~ 11.535

Ps 225-236 14.553 13.439 12.056 11.361 10.675 10.854 10.839 10.623 10.304 10.121 11.126 12.006

Ps 237-245 14.292 14.208 14.295 14.296 14.294 13.516 14.034 14.549 10.826

Pcw = 11.135 L = .0358 Pcu = 14.124 Fcu/Pcw = 1.271 Wc = 2.07 T = 64. B = 29.79

Run 1E-4 C1 I1 S1 B1 Eng 1 0.4° p=0° m/m ~~1~~ 0.010

Pt/Pto 131-144

1.000 1.000 .997 .993 .988 .986 1.000 1.000 .998 .995 .989 .984 .986 .984

Cp 330-344

~~174~~ -.291 -.562 -.408 -.191 .441 -.214 -.552 -.005 -.577 -.438 -.155 -.143 -.183 -.338

Pt/Pto 101-130

.930 .996 .979 .955 .773 .845 .976 1.000 1.000 .995
.797 .863 .906 1.000 1.000 .998 .841 .880 1.000 1.000
1.000 1.000 .902 .920 1.000 1.000 1.000 .981 .985

Ptc = 14.182 Ptc/Pto = .954 K = .2387

Cp 310-320

.974 ~~536~~ .322 .115 -.000 -.209 -.196 -.164 -.153 -.111 -.066

Cp 321-329

1.005 .917 .573 .394 .273 .087 -.036 -.062 -.120

Ps 301-309 12.922 11.493 12.201 12.616 12.637 11.486 13.968 14.354 11.179

Ps 201-206 11.173 11.257 11.425 11.283 10.944 11.11

Ps 207-212 14.140 14.247 14.344 14.266 14.141 14.121

Ps 213-224 14.486 13.104 12.580 12.016 11.690 11.847 11.676 11.367 10.919 10.554 ~~11.487~~ 11.610

Ps 225-236 14.131 13.031 11.731 11.101 10.503 10.738 10.793 10.415 10.302 10.220 11.209 12.129

Ps 237-245 14.200 14.276 14.292 14.284 14.200 13.640 14.184 10.693 11.001

Pcw = 11.200 L = .0339 Pcb = 14.211 Ptc/Pcw = 1.266 Wc = 2.00 T = 65. B = 29.79

Run 18-5 C1 I1 S1 B1 Eng 1 $\alpha=10^\circ$ $\beta=0^\circ$ m/m' ~~0.007~~ 0.007

Pt/Pto 131-144

.998 .995 .991 .967 .966 .973 .998 .995 .991 .967 .960 .978 .984 .983

Cp 330-344

~~1.997~~ -.963 -.615 -.424 -.181 .378 -.315 -.647 -.748 -.501 -.444 -.137 -.163 -.291

Pt/Pto 101-130

.996 .996 .975 .967 .779 .834 1.000 .999 .964
.796 .860 1.001 1.001 1.001 .990 .841 .876 1.001 1.001
1.001 .994 .966 1.000 1.001 1.001 1.001 .985 .967

Ptc = 14.175 Pto/Pto = .953 K = .2419

Cp 310-320

.953 ~~-.967~~ .216 .001 -.105 -.278 -.215 -.174 -.155 -.097 -.049

Cp 321-329

.957 .963 .714 .475 .374 .162 -.007 -.071 -.161

Ps 301-309 12.616 11.295 11.975 12.431 12.593 11.500 13.955 14.315 1.133

Ps 201-206 11.144 11.231 11.393 11.214 10.907 11.075

Ps 207-212 14.101 14.207 14.302 14.216 14.068

Ps 213-224 14.586 13.233 12.676 12.056 11.607 11.810 11.647 11.329 10.870 10.430 ~~11.278~~ 11.643

Ps 225-236 13.966 14.898 11.512 10.914 10.300 10.620 10.740 10.540 10.236 10.167 11.160 12.084

Ps 237-245 14.272 14.267 14.275 14.270 14.273 13.571 14.097 14.622 10.955

Pcw = 11.161 L = .0343 Fcb = 14.160 Ptc/Pcw = 1.270 Wc = 2.06 T = 65. B = 29.78

Run 18-6 C1 I1 S1 B1 Eng 1 $\alpha=0^\circ$ $\beta=-4^\circ$ m/m² = ~~0.808~~ 0.808

Ft/Fto 131-144

1.000 1.000 1.000 .997 .993 .991 1.000 1.000 .999 .995 .991 .989 .985

Cp 330-344

~~.988~~ -.167 -.476 -.370 -.177 .460 -.150 -.460 -.628 -.538 -.417 -.161 -.154 -.180 -.356.

Ft/Fto 101-130

.967 .957 .956 .953 .782 .848 .989 1.000 1.000 .996
.810 .808 .993 1.000 1.000 .998 .987 1.000 1.000
1.000 1.000 .914 .929 1.000 1.000 1.000 .985 .988

Ptc = 14.243 Ftc/Fto = .953 K = .2276

Cp 310-320

.941 ~~-.551~~ .394 .216 .085 -.143 -.125 -.168 -.147 -.093

Cp 321-329

.875 .936 .663 .481 .380 .171 .018 -.041 -.096

Ps 301-309 12.528 11.552 12.002 12.454 12.577 11.516 14.084 14.497 11.175

Ps 201-206 11.260 11.350 11.497 11.373 11.623 11.190

Fs 207-212 14.252 14.348 14.436 14.372 14.253 14.148

Fs 213-224 14.353 12.000 12.393 11.803 11.580 11.759 11.639 11.354 10.929 10.986 ~~11.367~~ 11.697

Ps 225-236 13.896 12.741 11.383 10.785 10.274 10.557 10.785 10.559 10.294 10.344 11.299 12.169

Ps 237-245 14.285 14.261 14.288 14.290 14.287 13.779 14.323 10.821 11.108

Pcw = 11.284 L = .0333 Feb = 14.310 Ptc/icw = 1.262 Wc = 2.06 T = 65. B = 29.78

Run 18-7 C1 IL S B Eng 1 $\alpha=0^\circ$ $\beta=10^\circ$ m/h*=~~7.1~~ C.012

Pt/Pto 131-144

1.000 1.000 1.000 .998 .994 .991 1.000 1.000 1.000 .999 .996 .992 .989 .984

Cp 330-344

~~348~~ -.096 -.433 -.379 -.204 .409 -.183 -.500 -.641 -.554 -.440 -.193 -.164 -.198 -.396

Pt/Pto 101-130

.985 .982 .936 .775 .805 .863 .999 1.000 .981 .990
.837 .886 1.000 1.000 .999 .994 .879 .906 1.000 1.000
1.000 1.000 .930 .943 1.000 1.000 1.000 .990 .992

Ptc = 14.307 Ptc/Pto = .962 I = .2033

Cp 310-320

.901 ~~-.567~~ .381 .810 .079 -.158 -.242 -.235 -.226 -.189 -.160

Cp 321-329

.459 .993 .897 .735 .621 .373 .148 .060 -.041

Ps 301-307 11.988 10.828 11.648 12.335 12.547 11.534 14.330 10.766 11.459

Ps 201-206 11.392 11.501 11.610 11.502 11.157 11.305

Ps 207-212 14.424 14.514 14.596 14.542 14.438 14.350

Ps 213-224 14.261 12.743 12.232 11.706 11.457 11.678 11.590 11.348 10.955 10.987 ~~11.523~~ 1.355

Ps 225-236 13.283 11.987 10.657 10.170 9.835 10.195 10.659 10.490 10.290 10.579 11.492 12.223

Ps 237-245 14.294 14.291 14.299 14.294 14.294 14.080 10.640 11.105 11.305

Ptc = 11.411 L = .0317 Pcb = 14.478 Ptc/Fcw = 1.254 Wc = 2.04 T = 66. B = 29.78

Run 18-8 C1 IL S1 E1 Eng 1 $\alpha=0^\circ$ $\beta=4^\circ$ m/m* ~~711~~ 0.809

Pt/Pto 131-144
 .999 .999 .993 .994 .983 .986 .999 .999 .998 .996 .989 .984 .985 .984

Cp 330-344
~~.999~~ .340 -.531 -.429 -.233 .466 -.138 -.479 -.629 -.540 -.419 - 160 -.173 -.206 -.382

Pt/Pto 101-130
 .973 .995 .986 .960 .754 .822 .996 1.000 1.000 .993
 .776 .840 1.000 1.000 1.000 .821 1.000 1.000 1.000
 1.000 1.000 .889 .907 1.000 1.000 1.000 .978 .981

Ptc = 14.138 Ptc/Pto = .951 K = .2588

Cp 310-320
 .972 ~~.528~~ .371 .153 .025 -.181 -.184 -.154 -.170 -.130 -.093

Cp 321-329
 .968 .658 .231 .046 -.007 -.129 -.165 -.141 -.145

Ps 301-309 13.126 11.982 12.574 12.751 12.691 11.477 13.796 14.137 11.017

Ps 201-206 11.064 11.148 11.325 11.175 10.817 11.012

Ps 207-212 14.003 14.115 14.217 14.124 13.982 14.032

Ps 213-224 14.428 13.063 12.562 12.031 11.712 11.842 11.679 11.357 10.889 10.335 ~~11.677~~ 11.507

Ps 225-236 14.435 13.594 12.260 11.569 10.862 10.989 10.944 10.669 10.347 10.059 11.060 12.050

Ps 237-245 14.260 14.254 14.263 14.264 14.262 n.g. 13.914 14.430 10.811

Pcw = 11.090 L = .0360 Pcb = 14.079 Ptc/Pcw = 1.275 Mc = 2.07 T = 66. B = 29.78

Run 18-2 31 11 57 31 28g 1 100° per 10° m/m 0.305

Fr/Fto 131-144

.997 .994 .988 .979 .977 .990 .996 .992 .988 .980 .975 .983 .983

CP 330-344

~~.997~~ .519 -.707 -.524 -.335 .423 -.157 -.495 -.642 -.557 -.442 -.199 -.257 -.275 -.467

Fr/Fto 101-120

.997 .996 .990 .896 .734 .795 .999 1.000 1.000 .943
.756 .874 1.000 1.000 .985 .985 1.000 1.000 1.000
1.000 .999 .874 .885 1.000 1.000 1.000 .977 .977

Fto = 14.005 Fto/Fto = .942 K = .2824

CP 310-320

.997 .997 .272 .069 -.057 -.257 -.003 -.190 -.245 -.147 -.107

CP 321-329

.700 .219 -.201 -.302 -.310 -.340 -.296 -.225 -.165

Ps 301-309 13.472 12.322 12.715 12.797 12.721 11.432 13.496 13.612 10.740

Ps 201-209 10.684 10.950 11.138 10.927 10.574 10.725

Ps 207-212 13.721 13.650 13.956 13.850 13.673 13.675

Ps 213-224 14.425 13.090 12.602 12.069 11.727 11.034 12.647 11.298 10.794 9.995 ~~11.658~~ 11.323

Ps 225-236 14.599 14.047 14.755 12.611 11.183 11.182 11.063 10.589 10.303 9.002 10.659 11.936

Ps 237-245 14.257 14.232 14.241 14.242 14.239 n.g. 13.558 14.040 14.519

Fov = 10.670 L = .0399 Fob = 13.813 Fto/Fov = 1.206 ac = 2.67 T = 66. B = 23.78

Run 24-1 C1 I1 S1 B1 Eng 1 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^* = .441$ C.804

| | | | | | | | | | | | | | |
|----------------|-----------|--------|--------|--------|-----------|--------|--------|--------|--------|--------|--------|--------|-------|
| Pt/Pto 131-144 | 1.000 | 1.000 | .999 | .996 | .992 | .989 | 1.000 | 1.000 | .999 | .998 | .993 | .988 | .985 |
| Cp 330-344 | .257 | -.515 | -.397 | -.200 | .474 | -.135 | -.477 | -.633 | -.544 | -.425 | -.166 | -.181 | -.197 |
| | | | | | | | | | | | | | -.376 |
| Pt/Pto 101-130 | .921 | .996 | .982 | .988 | .771 | .841 | .952 | 1.000 | 1.000 | .999 | | | |
| | .797 | .864 | .989 | 1.000 | 1.000 | .840 | .884 | 1.000 | 1.000 | 1.000 | | | |
| | 1.000 | 1.000 | .900 | .925 | 1.000 | 1.000 | 1.000 | .980 | .986 | | | | |
| Ptc = 14.275 | Ptc/Pto = | .954 | K = | .2398 | | | | | | | | | |
| Cp 310-320 | .863 | .456 | .198 | .066 | -.153 | -.177 | -.155 | -.153 | -.119 | -.086 | | | |
| Cp 321-329 | .902 | .531 | .275 | .192 | .017 | -.078 | -.084 | -.136 | | | | | |
| Ps 301-309 | 13.028 | 11.763 | 12.457 | 12.731 | 12.718 | 11.552 | 13.990 | 14.404 | 11.257 | | | | |
| Ps 201-206 | 11.205 | 11.337 | 11.566 | 11.369 | 10.976 | 11.133 | | | | | | | |
| Ps 207-212 | 14.171 | 14.289 | 14.395 | 14.350 | 14.185 | 14.145 | | | | | | | |
| Ps 213-224 | 14.477 | 13.067 | 12.556 | 12.035 | 11.728 | 11.882 | 11.739 | 11.431 | 10.981 | 10.606 | 11.524 | 11.648 | |
| Ps 225-236 | 14.290 | 13.270 | 11.901 | 11.252 | 10.624 | 10.848 | 10.874 | 10.702 | 10.371 | 10.254 | 11.269 | 12.206 | |
| Ps 237-245 | 14.329 | 14.322 | 14.335 | 14.336 | 14.334 | 13.679 | 14.236 | 10.744 | 11.060 | | | | |
| Pcw = 11.264 | L = | .6414 | Pcb = | 14.256 | Ptc/Pcw = | 1.267 | Wc = | 2.05 | T = | 76. | B = | 29.99 | |

Run 20-8 C1 IO S1 B1 Eng 1 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^* = \frac{6.4}{1}$ 0.730

Pt/Pto 131-144

| | | | | | | | | | | |
|------|------|------|------|-------|------|------|------|------|------|------|
| .999 | .997 | .992 | .990 | 1.000 | .999 | .998 | .993 | .930 | .988 | .985 |
|------|------|------|------|-------|------|------|------|------|------|------|

CP 330-344

| | | | | | | | | | | | | | |
|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -.161 | -.254 | -.510 | -.387 | .471 | -.135 | -.477 | -.626 | -.536 | -.416 | -.146 | -.129 | -.180 | -.311 |
|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

Pt/Pto 101-130

| | | | | | | | | | | |
|--|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| | .931 | .992 | .953 | .985 | .816 | .880 | .958 | 1.000 | .993 | .999 |
| | .831 | .894 | .993 | 1.000 | 1.000 | 1.000 | .860 | .906 | 1.000 | 1.000 |
| | .000 | 1.000 | .908 | .936 | 1.000 | 1.000 | 1.000 | 1.000 | .980 | .987 |

Ptc = 14.332 Ptc/Pto = .960 K = .1922

CP 310-320

| | | | | | | | | | | |
|------------------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| -.110 | .803 | .470 | .237 | .134 | -.033 | -.177 | -.220 | -.197 | -.140 | -.089 |
|------------------|------|------|------|------|-------|-------|-------|-------|-------|-------|

CP 321-329

| | | | | | | | | |
|----------------|------|------|------|------|-------|-------|-------|-------|
| 373 | .773 | .492 | .292 | .174 | -.000 | -.071 | -.122 | -.192 |
|----------------|------|------|------|------|-------|-------|-------|-------|

| | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa | 301-309 | 11.951 | 12.137 | 12.700 | 13.052 | 13.122 | 12.208 | 11.002 | 11.325 | 11.945 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Pa 201-206 11.974 12.109 12.217 12.153 11.869 11.961

Pa 207-212 11.192 11.264 11.332 11.316 11.226 11.165

| | | | | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 213-224 | 14.423 | 13.081 | 11.033 | 12.363 | 12.447 | 12.509 | 12.318 | 12.112 | 11.905 | 11.455 | 12.035 | 12.328 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa | 225-236 | 14.008 | 12.623 | 11.749 | 11.578 | 11.890 | 11.942 | 11.738 | 11.541 | 11.400 | 14.692 | 11.905 | 12.598 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

Pa 237-245 14.564 14.631 14.633 14.633 10.752 11.159 11.589 11.858

$P_{EW} = 12.047$ $L = .0243$ $P_{ED} = 11.249$ $W_C = 1.86$ $T = 72.$ $B = 29.91$

Run 21-14 C1 IO S1 B1 Eng 1 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^* = \frac{222}{222}$ 0.803

Pt/Pto 131-144

1.000 1.000 .999 .997 .992 .989 1.000 1.000 .999 .998 .993 .989 .987 .985

Cp 330-344

.159 -.264 -.522 -.407 -.210 .471 -.140 -.487 -.642 -.553 -.437 -.188 -.220 -.219 -.416

Pt/Pto 101-130

.937 .988 .926 .973 .749 .835 .970 1.000 .987 .998
 .772 .856 .996 1.000 1.000 .818 .871 1.000 1.000
 1.000 1.000 .888 .915 1.000 1.000 1.000 .979 .984

Ptc = 14.152 Ptc/Pto = .948 K = .2654

Cp 310-320

-.066 .898 .573 .317 .209 .007 -.165 -.213 -.194 -.139 -.091

Cp 321-329

-.388 .850 .568 .358 .228 .034 -.052 -.110 -.190

Ps 301-309 11.219 11.399 12.062 12.538 12.661 11.401 13.556 14.109 10.979

Ps 201-206 10.972 11.207 11.343 11.245 10.808 10.957

Ps 207-212 13.935 14.047 14.148 14.096 13.919 13.938

Ps 213-224 14.129 12.534 -10.588 11.697 11.796 11.866 11.595 11.297 10.998 10.321 11.088 11.494

Ps 225-236 13.655 12.009 10.920 10.692 11.083 11.156 10.847 10.540 10.296 14.689 10.912 11.857

Ps 237-245 14.521 14.608 14.608 14.608 14.606 n.g. 13.891 14.411 10.784

Pcw = 11.089 L = .0378 Pcb = 14.014 Ptc/Pcw = 1.276 Wc = 2.07 T = 69. B = 29.91

Run 14-33 C1 IO SO B1 Eng 1 $\alpha=0^\circ$ $\beta=0^\circ$ m/m' = ~~1.732~~ 0.732

Pt/Pto 131-144

1.015 1.015 1.015 1.013 1.009 1.007 1.015 1.015 1.015 1.013 1.009 1.006 1.003 1.000

Cp 330-344

~~1.002~~ -.004 -.008 -.006 -.003 .007 -.002 -.007 -.010 -.008 -.006 -.002 -.002 -.003

Pt/Pto 101-130

.988 1.012 1.005 .994 .987 1.000 .994 1.015 1.015 1.007
1.013 1.010 .994 1.015 1.013 1.015 1.014 1.001 1.015
1.015 1.015 1.015 1.014 1.015 1.015 1.015 1.015 1.015

Ptc = 14.843 Ptc/Pto = 1.009 K = .0280

Cp 310-320

~~1.001~~ .009 .004 .002 .001 -.001 -.003 -.003 -.003 -.002 -.001

Cp 321-329

~~1.001~~ .009 .005 .003 .001 -.001 -.001 -.002 -.003

Ps 301-309 13.542 13.517 13.831 13.999 14.039 13.832 13.331 13.035 12.989

Ps 201-206 12.718 12.858 12.960 12.914 12.652 12.576

Ps 207-212 12.154 12.248 12.291 12.247 12.158 12.081

Ps 213-224 14.790 13.974 10.580 13.584 13.685 13.777 13.784 13.758 13.732 13.207 13.182 13.133

Ps 225-236 14.539 13.770 13.306 13.252 13.437 13.513 13.470 13.428 13.400 14.702 13.312 13.496

Ps 237-245 11.739 14.163 13.655 14.254 11.095 11.851 12.467 12.508 12.508

Pev = 12.780 L = .0259 Pev = 12.197 Ptc/Pev = 1.161 Wc = 1.82 T = 74. B = 29.92

| | | | | | | | | | | | | |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 1.015 | 1.015 | 1.015 | 1.013 | 1.009 | 1.006 | 1.015 | 1.015 | 1.013 | 1.009 | 1.006 | 1.001 | 1.000 |
| Cp 330-344 | | | | | | | | | | | | |
| 1.015 | 1.015 | 1.015 | 1.013 | 1.009 | 1.006 | 1.015 | 1.015 | 1.013 | 1.009 | 1.006 | 1.001 | 1.000 |

| | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| .984 | 1.013 | .997 | .984 | .940 | .989 | 1.016 | 1.014 | 1.003 |
| 1.009 | 1.005 | .987 | 1.015 | 1.016 | 1.012 | 1.015 | .996 | 1.016 |
| 1.016 | 1.015 | 1.016 | 1.015 | 1.013 | 1.016 | 1.016 | 1.016 | 1.016 |

CP 310-320

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pa 301-309 | 12.990 | 13.116 | 13.422 | 13.660 | 13.763 | 13.526 | 12.815 | 12.385 | 12.336 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|
| Ps 207-212 | 11.168 | 11.300 | 11.368 | 11.319 | 11.163 | 11.067 |
|------------|--------|--------|--------|--------|--------|--------|

Ps 225-236 14.305 13.338 12.769 12.732 12.980 13.102 13.033 12.975 12.935 14.696 12.754 13.009

$P_{cw} = 12.032$ $L = .0337$ $P_{cb} = 11.231$ $P_{tc}/P_{cw} = 1.229$ $W_c = 2.04$ $T = 73$. $B = 29.91$

Run 3-22 C1 I2 S2 B1 Eng 1 $\alpha=0^\circ$ $\beta=0^\circ$ $m/m^* = \frac{600}{1000}$ C.C.I

| | |
|--------|---------|
| Pt/Pto | 131-144 |
| .991 | .986 |
| .985 | .975 |
| 1.012 | 1.029 |
| .996 | .993 |
| .991 | .989 |
| .990 | .984 |
| .984 | .984 |

| | | | | | | | | | | | | | | |
|------|---------|-------|------|-------|------|------|------|-------|-------|-------|------|-------|-------|-------|
| Cp | 330-344 | | | | | | | | | | | | | |
| -186 | -.248 | -.502 | .381 | -.201 | .478 | .122 | .458 | -.600 | -.502 | -.367 | .009 | -.288 | -.158 | -.462 |

| Pt/Fto | 101-130 | | | | | | |
|--------|---------|-------|-------|-------|-------|-------|-------|
| .969 | .993 | .980 | 1.017 | .992 | .989 | 1.000 | 1.000 |
| 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .997 | 1.000 | 1.000 |
| 1.000 | .990 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

| | Ftc = 14.930 | Ptc/Fto = .999 | K = .0370 | |
|------------|------------------|----------------|-----------|------|
| Cp 310-320 | .967 | .576 | .220 | |
| | .149- | | .021 | |
| | | | -.094 | |
| | | | -.181 | |
| | | | -.232 | |
| | | | - .146 | |
| | | | | .089 |

| | | | | | | | | | |
|------------|-----------------|------|------|------|------|------------------|------------------|-------|-------|
| Cp 310-320 | | | | | | | | | |
| .967 | .149 | .576 | .345 | .220 | .021 | -.094 | -.181 | -.232 | -.146 |
| | | | | | | | | | .089 |
| Cp 321-329 | | | | | | | | | |
| .997 | .655 | .369 | .227 | .146 | .033 | -.009 | -.009 | -.008 | |

[illegible]

P₃ 201-206 13.312 16.119 13.237 13.133 16.519 16.458

| | | | | | | | | | | | | | |
|---|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| P | 213-224 | 13.421 | 12.273 | 11.929 | 12.176 | 12.773 | 12.915 | 12.966 | 12.946 | 16.534 | 13.180 | 15.998 | 15.895 |
|---|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| PS 237-245 | 17.730 | 10.960 | 14.710 | 17.573 | 12.691 | 13.164 | 16.165 | 13.430 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|

$P_{cw} = 14.796$ $L = .2267$ $P_{cb} = 14.721$ $P_{tc}/P_{cw} = 1.009$ $W_c = .50$ $T = 73.$ $B = 29.96$

Run 3-23 C1 I2 S2 B1 Eng 1 $\alpha = 0^\circ$ $\beta = -4^\circ$ m/m² = ~~0.610~~ 0.661

Pt/Pto 131-144
 .994 .990 .983 .971 .954 .945 .991 .989 .987 .987 .987 .988 .984 .984
 Cp 330-344
~~.989~~ -.170 -.451 -.353 -.172 .467 -.131 -.458 -.599 .497 .364 .051 -.285- .124 .431

Pt/Pto 101-130
 .989 .991 .968 .961 .991 .991 1.000 1.000 .987 .968
 1.000 1.000 1.000 1.000 .999 .995 1.000 1.001 1.001 1.001
 1.000 .990 1.000 1.000 1.001 1.000 1.001 1.000 1.000 1.000

Ptc = 14.870 Ptc/Pto = .994 K = .0399

Cp 310-320
 1.004 ~~.267~~ .568 .364 .235 .036 -.079 -.170 -.224 -.157 -.097

Cp 321-329
 1.022 .837 .581 .401 .306 .160 ~~-.043~~ -.043

Ps 301-309 16.683 12.244 17.201 12.537 ~~14.545~~ 13.258 13.273 13.24 13.261

Ps 201-206 13.307 13.333 13.224 13.131 12.928 12.389

Ps 207-212 12.656 12.659 12.693 12.704 12.666 12.621

Ps 213-224 13.450 12.308 11.94 12.182 12.761 12.911 12.959 12.940 12.914 13.175 13.454 13.556

Ps 225-236 15.570 12.512 17.753 17.690 17.275 12.760 12.888 16.512 12.959 13.075 13.331 13.451

Ps 237-245 12.445 11.615 11.251 ~~11.673~~ 17.570 12.767 13.210 13.324 13.470

Pcv = 13.152 L = .0272 Pcb = 12.666 Ptc/Pcv = 1.131 Wc = 1.69 T = 74. B = 29.96

[illegible]

Run 3-25 C1 I2 S2 B1 Eng 1 $\alpha=0^\circ$ $\beta=4^\circ$ m/m* ~~3620~~ 0.659

Pt/Pto 131-144
.982 .979 .978 .970 .956 .935 .997 .996 .994 .991 .990 .990 .984 .984

Cp 330-344
~~070~~ -.349 -.569 -.426 -.252 .469 -.122 -.463 -.606 -.508 -.377 -.107 ~~-.273~~ -.206 -.561

Pt/Pto 101-130
.989 .994 .992 .952 .990 .979 1.000 1.000 1.000 .964
.998 .997 1.000 1.000 1.000 .979 .999 1.000 1.000 1.000
1.000 .994 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.863 Ptc/Pto = .994 K = .0480

Cp 310-320
.894 ~~140~~ .522 .309 .182 -.018 -.131 -.213 -.258 -.159 -.105

Cp 321-329
.859 .338 .132 .034 -.023 .099 -.013 -.017-. -.016

Ps 301-309 13.143 12.201 12.312 12.777 ~~14.530~~ 13.219 13.251 13.229 16.208

Ps 201-206 13.297 13.324 13.229 13.120 12.934 12.989

Ps 207-212 12.644 12.645 12.679 12.684 12.654 12.610

Ps 213-224 13.330 12.183 17.600 12.123 12.756 12.889 12.94 12.925 12.900 13.161 13.444 13.546

Ps 225-236 14.512 13.326 12.377 12.280 12.561 12.989 13.053 13.056 13.040 13.061 13.318 13.443

Ps 237-245 18.517 14.274 15.250 ~~11.533~~ 11.757 16.859 13.075 13.211 13.362

Pev = 13.149 L = .0262 Peb = 12.653 Ptc/Pev = 1.130 Wc = 1.68 T = 74. B = 29.96

| | |
|-----------------------|---|
| Pt/Pto | 131-144 |
| .963 | .986 |
| .984 | .974 .955 .930 .997 .995 .992 .989 .988 .984 .984 |
| Cp 330-344 | |
| .989 | -.253 -.510 -.392 -.223 .484 -.126 -.464 -.612 -.515 -.384 -.021 -.663 -.205 -.612 |
| Pt/Pto | 101-130 |
| .985 .989 | .975 .939 .993 .989 1.001 1.001 1.000 .949 |
| 1.000 1.000 | 1.000 1.000 1.000 .967 1.000 1.000 1.000 1.000 |
| 1.000 .991 | 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 |
| Ptc = 14.832 | Fte/fro = .993 K = .0617 |
| Cp 310-320 | |
| .875 -0.47 | .669 .434 .294 .063 -.069 -.163 -.219 -.144 -.091 |
| Cp 321-329 | |
| 1.017 | .782 .475 .310 .213 .076 -0.09 -0.064 |
| Ps 301-309 | 12.450 11.540 11.538 11.978 12.512 12.788 12.617 12.801 12.821 |
| Ps 201-206 | 12.794 12.778 12.584 12.764 12.589 12.510 |
| Ps 207-212 | 12.043 12.043 12.092 12.108 12.072 12.002 |
| Ps 213-224 | 12.728 11.458 11.058 11.383 12.167 12.365 12.433 12.410 12.379 12.716 13.069 13.195 |
| Ps 225-236 | 13.843 12.263 11.151 11.158 11.695 12.306 12.449 12.485 12.492 12.586 12.914 13.068 |
| Is 237-245 | 11.094 14.126 13.751 12.033 11.139 12.132 12.704 12.856 13.035 |
| Pcv = 12.687 | L = .0191 Pcb = 12.060 Ftc/Pcw = 1.169 Wc = 1.86 T = 66. B = 29.94 |

0.735

Pt/Pto 131-144

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| .988 | .985 | .983 | .974 | .955 | .932 | .927 | .995 | .992 | .983 | .969 | .986 | .984 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|

CP 330-344

| | | | | | | | | | | |
|--|------------------|-------|-------|-------|-------|-------|-------|------------------|-------|-------|
| | .473 | -.126 | -.468 | -.613 | -.516 | -.385 | -.030 | -.289 | -.205 | -.629 |
| | -.255 | -.511 | -.394 | -.227 | | | | | | |
| | +.183 | | | | | | | | | |

Pt/Pto 101-130

| | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| .986 | .991 | .972 | .937 | .992 | .987 | 1.000 | .999 | .947 |
| 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .966 | 1.000 | 1.000 | 1.000 |
| 1.000 | .991 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

$P_{TC} = 14.828$ $P_{TC}/P_{TO} = .392$ $K = .0636$

CP 310-320

| | | | | | | | | | |
|------|------|------|------|------|-------|-------|-------|-------|-------|
| .840 | .677 | .437 | .296 | .069 | -.068 | -.164 | -.220 | -.144 | -.087 |
|------|------|------|------|------|-------|-------|-------|-------|-------|

CP 321-329

| | | | | | | | | |
|------|------|------|------|------|------|----------------|--------|---------|
| .981 | .779 | .452 | .312 | .211 | .079 | .01 | --.610 | --.011- |
|------|------|------|------|------|------|----------------|--------|---------|

| | | | | | | | | | |
|------------|--------|--------|--------|--------|-------------------|--------|--------|--------|--------|
| Pa 301-309 | 12.285 | 11.449 | 11.431 | 11.886 | 11.458 | 12.728 | 12.763 | 12.743 | 12.759 |
|------------|--------|--------|--------|--------|-------------------|--------|--------|--------|--------|

Pa 201-206 12.821 12.854 12.724 12.588 12.333 12.407

| | | | | | | | |
|----------------|---------|--------|--------|--------|--------|--------|--------|
| P ₂ | 207-212 | 11.970 | 11.977 | 12.020 | 12.020 | 11.981 | 11.920 |
|----------------|---------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | | |
|---|---------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| P | 213-224 | 12.625 | 11.350 | 10.94 | 11.281 | 12.107 | 12.293 | 12.365 | 12.342 | 12.308 | 12.656 | 13.021 | 13.155 |
|---|---------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | | |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| P ₁ | 225-236 | 13.796 | 12.181 | 11.037 | 11.041 | 11.584 | 12.236 | 12.376 | 12.416 | 12.418 | 12.520 | 12.863 | 13.021 |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | |
|----------------|---------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|
| P ₃ | 237-245 | 11.008 | 14.018 | 13.627 | 12.133 | 11.015 | 12.057 | 12.642 | 12.798 | 12.984 |
|----------------|---------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|

$P_{CV} = 12.621$ $L = .0351$ $P_{CB} = 11.981$ $P_{TC}/P_{CV} = 1.175$ $W_C = 1.88$ $T = 69.$ $B = 29.94$

Run 4-39 C1 I2 S2 B1 Eng 1 $\alpha=0^\circ$ $\beta=-4^\circ$ $m/m^* = 0.733$

Pt/Pto 131-144

| | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| .994 | .991 | .986 | .974 | .953 | .937 | .994 | .991 | .988 | .987 | .987 | .988 | .984 | .984 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|

Cp 330-344

| | | | | | | | | | | | | | |
|-----------------|------------------|------------------|------------------|------------------|------|------------------|------------------|------------------|------------------|------------------|------|------------------|------------------|
| .994 | -.178 | -.465 | -.371 | -.203 | .456 | -.140 | -.473 | -.615 | -.517 | -.387 | .007 | -.174 | -.572 |
|-----------------|------------------|------------------|------------------|------------------|------|------------------|------------------|------------------|------------------|------------------|------|------------------|------------------|

Pt/Pto 101-130

| | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| .986 | .988 | .957 | .942 | .991 | .989 | 1.000 | 1.000 | .978 | .954 |
| 1.000 | 1.000 | 1.000 | 1.000 | .997 | .967 | .999 | 1.000 | 1.000 | 1.000 |
| 1.000 | .989 | .999 | 1.000 | 1.000 | 1.000 | .999 | 1.000 | 1.000 | 1.000 |

Ptc = 14.812 Ptc/Pto = .991 K = .0586

Cp 310-320

| | | | | | | | | | | |
|------|------------------|------|------|------|------|------------------|------------------|------------------|------------------|------------------|
| .864 | -.134 | .680 | .442 | .303 | .076 | -.062 | -.158 | -.221 | -.158 | -.102 |
|------|------------------|------|------|------|------|------------------|------------------|------------------|------------------|------------------|

Cp 321-329

| | | | | | | | | |
|------|------|------|------|------|------|------------------|------------------|------------------|
| .890 | .916 | .636 | .470 | .362 | .138 | -.044 | -.045 | -.044 |
|------|------|------|------|------|------|------------------|------------------|------------------|

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ps 301-309 | 12.242 | 11.423 | 11.400 | 11.730 | 14.579 | 12.762 | 12.785 | 12.760 | 12.778 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|
| Ps 201-206 | 12.836 | 12.867 | 12.733 | 12.609 | 12.343 | 12.424 |
|------------|--------|--------|--------|--------|--------|--------|

| | | | | | | |
|------------|--------|--------|--------|-------|--------|--------|
| Ps 207-212 | 11.992 | 11.998 | 12.041 | 12.04 | 12.003 | 11.941 |
|------------|--------|--------|--------|-------|--------|--------|

| | | | | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ps 213-224 | 12.706 | 11.441 | 11.019 | 11.332 | 12.124 | 12.317 | 12.385 | 12.359 | 12.327 | 12.672 | 13.035 | 13.166 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ps 225-236 | 13.400 | 11.759 | 10.726 | 10.811 | 11.399 | 12.087 | 12.266 | 12.343 | 12.381 | 12.553 | 12.881 | 13.034 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | |
|------------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|
| Ps 237-245 | 11.796 | 10.758 | 14.268 | 11.692 | 11.087 | 12.160 | 12.711 | 12.854 | 13.042 |
|------------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|

| | | | | | | |
|--------------|-----------|--------------|-----------------|-----------|---------|-----------|
| Ptc = 12.635 | L = .0354 | Pcb = 12.004 | Ptc/Pcw = 1.172 | Wc = 1.86 | T = 70. | B = 29.94 |
|--------------|-----------|--------------|-----------------|-----------|---------|-----------|

Run 4-40 C1 I2 S2 B1 Eng 1 $\alpha=0^\circ$ $\beta=-10^\circ$ $m/m^* = \frac{1}{2}$ 0.736

Pt/Pto 131-144

.981 .975 .967 .957 .94 .941 .979 .979 .979 .980 .981 .983 .983 .983

Cp 330-344

~~.365~~ -.104 -.421 -.365 -.206 .404 -.170 -.480 -.508 -.504 -.365 .050 ~~-.294~~ -.136 -.565

Pt/Pto 101-130

.985 .94 .964 .962 .988 .992 1.000 .977 .976 .964
.996 1.000 .935 .986 .968 .996 1.000 1.000 .997
.997 .987 .997 1.000 1.000 1.000 .993 .999 1.000

Ptc = 14.779 Ptc/Pto = .989 K = .0527

Cp 310-320

.783 ~~-.128~~ .646 .425 .282 .054 -.086 -.182 -.252 -.218 -.171

Cp 321-329

.516 .395 .823 .571 .559 .363 -.099 -.097 -.099

Ps 301-309 11.744 11.033 10.973 11.328 ~~11.573~~ 12.667 12.697 12.658 12.682

Ps 201-206 12.749 12.757 12.647 12.522 12.254 12.321

Ps 207-212 11.872 11.879 11.931 11.934 11.884 11.821

Ps 213-224 12.618 11.356 10.904 11.201 12.003 12.196 12.258 12.222 12.184 12.551 12.930 13.074

Ps 225-236 12.686 11.160 10.813 10.944 11.265 11.473 11.626 11.738 1.936 12.456 12.764 12.922

Ps 237-245 12.960 11.857 11.213 ~~11.560~~ 11.317 12.227 12.679 12.735 13.010

Pcv = 12.542 L = .0340 Pcb = 11.887 Ptc/Pcw = 1.173 Wc = 1.88 T = 70. B = 29.94

Run 4-41 C1 I2 S2 B1 E1g 1 $\alpha=0^\circ$ $\beta=4^\circ$ m/m* = ~~0.732~~ 0.732

Pt/Pto 131-144

.978 .974 .974 .967 .952 .947 .937 .936 .994 .971 .989 .984 .984 .984

Cp 330-344

.065 - .354 - .573 - .433 - .279 .461 - .133 - .476 - .621 - .525 - .397 - .161 ~~-.296~~ - .243 - .699

Pt/Pto 101-130

.986 .933 .986 .94 .977 .981 1.000 1.000 1.000 .954
.993 .998 1.000 1.000 1.000 .975 .997 1.000 1.000 1.000
1.000 .996 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.833 Ptc/Pto = .933 K = .0564

Cp 310-320

.794 ~~-.140~~ .636 .368 .248 .623 - .110 - .201 - .250 - .160 - .107

Cp 321-329

.938 .531 .246 .124 .044 - .054 ~~-.019~~ - .018 - .013Ps 301-309 12.525 11.509 11.561 11.976 ~~14.547~~ 12.752 12.798 1 770 12.786

Ps 201-206 12.846 12.322 12.764 12.619 12.398 12.445

Ps 207-212 12.012 12.014 12.057 12.052 12.017 11.961

Ps 213-224 12.594 11.331 10.951 11.300 12.147 12.517 12.390 12.367 12.335 12.679 13.040 13.175

Ps 225-236 14.175 12.677 12.407 11.407 11.794 12.394 12.496 12.510 12.423 12.546 12.383 13.04

Ps 237-245 14.303 n.g. n.g. ~~11.293~~ 10.935 11.994 12.590 12.750 12.944

Pew = 12.659 L = .0346 Feb = 12.019 Ptc/Pew = 1.172 Wc = 1.86 T = 71. B = 29.94

Run 4-42 C1 I2 S2 B1 Eng 1 $\alpha=0^\circ$ $\beta=10^\circ$ m/m' ~~11~~ 0.751

Pt/Pto 131-144
 .950 .953 .952 .94 .929 .904 .901 .991 .990 .907 .984 .950 .953 .983

Cp 330-344
~~-.714~~ -.538 -.706 -.504 -.395 .417 -.155 -.492 -.638 -.54 -.423 -.495 ~~-.456~~ -.34 -.842

Pt/Pto 101-130
 .985 .994 .995 .973 .967 .952 1.000 1.000 1.000 .979
 .975 .965 1.000 1.000 .983 .985 .972 1.000 1.000
 1.000 .992 .995 .989 1.000 1.000 1.000 1.000 1.000

Ptc = 14.794 Ptc/Pto = .990 K = .0492

Cp 310-320
~~.637~~ .532 .285 .140 -.076 -.206 -.207 -.355 -.425 -.169

Cp 321-329
 .714 .110 -.044 -.151 -.137 -.241 ~~-.063~~ ~~-.043~~

Ps 301-309 12.746 10.904 11.115 11.015 ~~11.557~~ 12.753 12.770 12.714 12.730

Ps 201-209 12.799 12.841 12.721 12.581 12.359 12.410

Ps 207-212 11.94 11.951 11.950 11.989 11.956 11.904

Ps 213-224 12.384 11.151 10.709 11.144 12.061 12.207 12.305 12.450 12.24 12.607 12.982 13.122

Ps 225-230 14.529 13.217 11.956 11.741 12.074 12.484 12.544 12.524 12.408 12.401 12.826 12.997

Ps 237-245 n.g. n.g. ~~11.143~~ 10.803 11.195 12.24 12.040 12.852

Fev = 12.019 L = .0329 Feb = 11.958 Ptc/Fev = 1.172 Wc = 1.80 T = 71. B = 29.94

Run 4-43 C1 I2 S2 B1 Eng 1 $\alpha = 4.7^\circ$ $\beta = 0^\circ$ $\pi/m = 0.732$

Pt/Pto 131-144

.988 .984 .980 .969 .950 .931 .950 .993 .991 .990 .990 .991 .984 .984

Cp 330-344

~~.977~~ -.303 -.551 -.414 -.224 .432 -.207 -.547 -.675 -.554 -.409 -.035 ~~-.301~~ -.200 -.592

Pt/Pto 101-130

.987 .990 .960 .937 .921 .988 1.000 1.000 .996 .948
.999 1.000 1.000 1.000 1.000 .960 1.000 1.000 1.000
1.000 .982 .999 1.000 1.000 1.000 .999 1.000 1.000

Ptc = 14.814 Ptc/Pto = .991 K = .0030

Cp 310-320

~~.908~~ .590 .359 .232 .15 -.103 -.167 -.235 -.140 -.001

Cp 321-329

.820 .526 .381 .281 .135 -.013 -.615 ~~-.614~~Ps 301-309 12.257 11.453 11.459 11.030 ~~11.550~~ 12.760 12.783 12.756 12.782

Ps 201-206 12.04 12.878 12.742 12.616 12.357 12.435

Ps 207-212 12.005 12.009 12.055 12.050 12.013 11.954

Ps 213-224 12.930 11.579 11.123 11.408 12.164 12.340 12.405 12.375 12.344 12.680 13.040 13.174

Ps 225-236 13.677 12.056 10.956 10.985 11.571 12.218 12.360 12.419 12.430 12.547 12.883 13.040

Ps 237-245 11.069 14.112 13.737 ~~10.966~~ 11.069 12.101 12.675 12.828 13.010

Pcw = 12.645 L = .0352 Peb = 12.015 Ptc/Pcw = 1.172 Ws = 1.86 T = 71. B = 29.94

Run 4-44 C1 I2 S2 B1 Eng 1 $\alpha = -4^\circ$ $\beta = 0^\circ$ m/m* ~~0.732~~ 0.732

| | | | | | | | | | | | | | |
|----------------|------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Pt/Pto 131-144 | .988 | .986 | .985 | .978 | .960 | .935 | .998 | .997 | .993 | .990 | .988 | .984 | .984 |
| Cp 330-344 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| | .986 | .991 | .978 | .94 | .993 | .388 | 1.000 | 1.000 | 1.000 | .953 | | | |
| | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .976 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| | 1.000 | .996 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | | |
| Ptc = 14.850 | Ptc/Pto = .993 | K = .0567 | | | | | | | | | | | |
| Cp 310-320 | .757 | 1.119 | .730 | .496 | .354 | .122 | -.032 | -.136 | -.202 | -.139 | -.093 | | |
| Cp 321-329 | .972 | .677 | .361 | .218 | .126 | .002 | -.025 | -.025 | -.025 | -.025 | | | |
| Ps 301-309 | 12.457 | 11.553 | 11.550 | 12.038 | 11.550 | 12.781 | 12.821 | 12.798 | 12.810 | | | | |
| Ps 201-206 | 12.870 | 12.902 | 12.781 | 12.64 | 12.399 | 12.466 | | | | | | | |
| Ps 207-212 | 12.039 | 12.045 | 12.086 | 12.086 | 12.051 | 11.992 | | | | | | | |
| Ps 213-224 | 12.389 | 11.233 | 10.897 | 11.272 | 12.140 | 12.332 | 12.413 | 12.395 | 12.367 | 12.711 | 13.066 | 13.196 | |
| Ps 225-236 | 13.967 | 12.414 | 11.272 | 11.242 | 11.707 | 12.34 | 12.472 | 12.499 | 12.496 | 12.577 | 12.910 | 13.067 | |
| Ps 237-245 | 11.058 | 14.070 | 13.689 | 10.777 | 11.086 | 12.108 | 12.689 | 12.841 | 13.022 | | | | |
| Pcv = 12.677 | L = .0333 | Pcb = 12.050 | Ptc/Pcv = 1.171 | Mc = 1.86 | T = 71. | B = 29.95 | | | | | | | |

Run 4-45 C1 I2 S2 B1 Eng 1 $\alpha = -4^\circ$ $\beta = -4^\circ$ m/m ~~0.734~~ 0.734

Pt/Pto 131-144

.994 .993 .991 .981 .960 .939 .937 .994 .990 .987 .980 .984 .984

Cp 330-344

~~.992~~ -.110 -.396 -.329 -.183 .500 -.052 -.382 -.538 -.462 -.34 .016 ~~-.306~~ -.163 -.584

Pt/Pto 101-130

.986 .990 .961 .939 .994 .989 1.000 1.000 .989 .952
1.000 1.000 1.000 1.000 1.000 .973 1.000 1.000 1.001 1.000
1.001 .996 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ptc = 14.833 Ptc/Pto = .992 K = .0619

Cp 310-320

.784 ~~.753~~ .753 .515 .373 .144 -.012 -.117 -.191 -.139 -.091

Cp 321-329

.942 .872 .568 .404 .302 .145 ~~-.051~~ ~~-.053~~ ~~-.053~~

Ps 301-309 12.313 11.498 1.482 1.910 ~~14.557~~ 12.782 12.805 12.773 12.795

Ps 201-206 12.851 12.883 12.74 12.624 12.363 12.443

Ps 207-212 12.013 12.018 12.062 12.064 12.024 11.265

Ps 213-224 12.420 11.262 10.903 11.270 12.117 12.317 12.395 12.376 12.34 12.694 13.050 13.183

Ps 225-236 13.547 11.916 10.839 10.899 11.509 12.180 12.343 12.404 12.425 12.564 12.897 13.050

Ps 237-245 11.768 14.719 14.232 ~~14.672~~ 11.11 12.169 12.724 12.868 13.055

Pcw = 12.652 L = .0351 Pcb = 12.024 Ptc/Pcw = 1.172 Wc = 1.87 T = 71. B = 29.95

Pto 131-144

.983

330-344

-.126 -.532

Pto 101-130

1.000
1.000
1.000

240.

31C-320

-145

321-329

●

12.740

12.378

11.333

12.389 13.128

2.825 12.979

13.651

g = 23.95

Run 4-47 C1 12 S2 B1 Eng 1 $\alpha = -4^\circ$ $\beta = 4^\circ$ $m/a = 1.000$ 0.000

Ft/Pto 131-144

.978 .974 .974 .956 .955 .929 .997 .997 .989 .989 .984 .984

Cp 330-344

~~.943~~ -.321 -.540 -.432 -.298 .500 -.049 -.388 -.345 -.473 -.368 -.135 ~~-.368~~ -.24 -.737

Ft/Pto 101-130

.985 .993 .991 .952 .971 .983 1.000 1.000 1.000 .964
.988 .998 1.000 1.000 1.000 .985 .996 .996 1.000 1.000
1.000 .999 1.000 1.000 1.000 1.000 1.000 1.000 1.000

Ftc = 14.850

Ftc/Pto = .994 K = .040

Cp 310-320

~~.705~~ .705 .705 .455 .312 .074 -.076 -.170 -.239 -.105 -.122

Cp 321-329

.423 .159 .022 -.051 -.142 -.007 -.029 -.028

Ps 301-309

12.630 11.462 11.505 12.053 ~~14.549~~ 12.749 12.736 12.764 12.775

Ps 201-206

12.830 12.873 12.754 12.612 12.393 12.431

Ps 207-212

11.997 11.999 12.044 12.030 12.003 11.947

Fs 213-224

12.254 11.100 10.780 11.173 12.093 12.280 12.304 12.345 12.316 12.300 12.034 13.108

Fs 225-236

14.271 12.812 11.506 11.409 11.340 12.421 12.513 12.518 12.499 12.539 12.870 13.039

Fs 237-245

14.299 n.g. n.g. ~~14.54~~ 10.682 11.947 12.567 12.730 12.934

Fcw = 12.690

L = .0323 Fcs = 12.004

Ftc/Fcw = 1.174

Wc = 1.07

T =

72.

B =

29.95

Run 4-48 C1 I2 S2 B1 Eng 1 $\alpha = -4^\circ$ $\beta = 10^\circ$ $m/m^* = 0.732$

Pt/Pto 131-144

[illegible]

CP 330-344

| | | | | | | | | | | | | | | |
|------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|------------------|-------|-------|
| -.121 | -.524 | -.696 | -.556 | -.439 | .465 | -.071 | -.403 | -.565 | -.475 | -.388 | -.482 | -.393 | -.353 | -.890 |
|------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|------------------|-------|-------|

Pt/Pto 101-130

[illegible]
$$P_{TC} = 14.799 \quad P_{TC}/P_{T0} = .990 \quad K = .0536$$

CP 310-320

| | | | | | | | | | |
|-----------------|------|------|------|-------|-------|-------|-------|-------|-------|
| .493 | .573 | .341 | .197 | -.036 | -.105 | -.279 | -.328 | -.247 | -.203 |
|-----------------|------|------|------|-------|-------|-------|-------|-------|-------|

CP 321-329

| | | | | | | | |
|-----|-------|-------|-------|-------|-------|------------------|------------------|
| 573 | -.031 | -.220 | -.273 | -.318 | -.347 | -.364 | -.482 |
|-----|-------|-------|-------|-------|-------|------------------|------------------|

Pa 301-309 12.894 10.747 10.987 11.756 ~~14.541~~ 12.745 12.765 12.761 12.727

| | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|
| P# | 201-206 | 12.788 | 12.830 | 12.710 | 12.573 | 12.347 | 12.408 |
|----|---------|--------|--------|--------|--------|--------|--------|

| | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|
| Pa | 207-212 | 11.930 | 11.935 | 11.941 | 11.970 | 11.939 | 11.885 |
|----|---------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | | |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| P5 | 213-224 | 12.029 | 10.886 | 10.590 | 11.006 | 11.998 | 12.187 | 12.274 | 12.254 | 12.224 | 12.595 | 12.972 | 13.112 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | | |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| P ₁ | 225-236 | 14.588 | 13.325 | 12.050 | 11.805 | 12.128 | 12.498 | 12.555 | 12.529 | 12.487 | 12.468 | 12.816 | 12.988 |
|----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | |
|------------|------|------|-------------------|--------|--------|--------|--------|
| Pa 237-245 | n.g. | n.g. | 10.772 | 11.150 | 12.229 | 12.627 | 12.835 |
| | | | 14.543 | | | | |

$P_{EW} = 12.609$ $L = .0326$ $P_{CB} = 11.940$ $P_{TC}/P_{EW} = 1.174$ $W_C = 1.86$ $T = 72.$ $B = 29.95$

0.815

771-144 C20

[illegible]

511-232

| |
|---------|
| Cd |
| 97-38-6 |
| - .259 |
| .468 |
| - .129 |
| - .625 |
| - .402 |
| - .065 |
| - .765 |
| - .255 |
| - .789 |

61-150

Page 101-130

Pt = 14.801 Pt, Fe = .991 K = .0755

210-320

09 370-320

ECR-1-5

600-1-1 CC

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Es 301-309 | 11.875 | 14.428 | 14.370 | 10.759 | 11.636 | 12.103 | 12.141 | 12.128 | 12.158 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|
| Ps 101-006 | 12.097 | 12.384 | 11.951 | 12.073 | 11.829 | 11.713 |
|------------|--------|--------|--------|--------|--------|--------|

Ps 207-212 11.273 11.086 11.147 11.173 11.105 11.012

| | | | | | | | | | | | | |
|------------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ps 213-224 | 11.699 | 10.276 | 9.723 | 10.167 | 11.241 | 11.518 | 11.611 | 11.579 | 11.536 | 12.012 | 12.493 | 12.663 |
|------------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

| | | | | | | | | | | | | |
|------------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ps 225-236 | 13.267 | 11.309 | 9.771 | 9.771 | 10.525 | 11.406 | 11.605 | 11.663 | 11.689 | 11.839 | 12.293 | 12.502 |
|------------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|

| Ps | 237-245 | 14.333 | n.g. | n.g. | 11.272 | 11.991 | 12.188 | 12.432 |
|----|---------|--------|------|------|-------------------|--------|--------|--------|
| | | | | | 14.746 | 13.765 | | |

$P_{CW} = 11.958$ $L = .0259$ $P_{CB} = 11.130$ $P_{CC}/P_{CW} = 1.238$ $W_C = 2.07$ $T = 71.$ $B = 29.94$